



# Water Resources Data Ohio Water Year 1992

Volume 1. Ohio River Basin Excluding Project Data

by H.L. Shindel, J.H. Klingler, J.P. Mangus, and L.E. Trimble



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-92-1

Prepared in cooperation with the State of Ohio  
and with other agencies

DEPARTMENT OF THE INTERIOR

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U.S. GEOLOGICAL SURVEY

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1993

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## PREFACE

This volume of the annual hydrologic data report of Ohio is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and Trust Territories. These records of streamflow, ground-water levels, and quality of water provides the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Ohio are contained in two volumes:

Volume 1. Ohio River Basin

Volume 2. St. Lawrence River Basin - Statewide Project Data

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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## DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Ohio have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (\*) after the station number are currently operated as crest-stage partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge]

## OHIO RIVER BASIN

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of record
DEER CREEK AT LIMAVILLE (d)	03088000	33.2	1941-51
MAHONING RIVER NR DEERFIELD (d)	03088500	175	1923-31
WILLOW CREEK NR DEERFIELD (d)	03089000	11.6	1941-43
MILL CREEK NR BERLIN CENTER (d)	03089500	19.1	1941-71
MAHONING R BEL BERLIN DAM NR BERLIN CENTER (d)	03090500	248	1930-91
W B MAHONING R BEL MJ KERWIN DAM AT WAYLAND (d)	03092460	81.7	1968-91
W B MAHONING R NR NEWTON FALLS (d)	03092500	96.3	1926-81
DUCK CREEK AT LEAVITTSBURG (d)	03093500	32.3	1941-48
MAHONING RIVER AT WARREN (d)	03094500	594	1924-35
MOSQUITO C BEL MOSQUITO CREEK DAM NR CORTLAND (d)	03095500	97.5	1926-29
			1943-91
MOSQUITO CREEK AT NILES (d)	03096000	138	1929-51
MEANDER CREEK AT OHLESTOWN (d)	03096500	78.4	1926-29
MEANDER CREEK AT MINERAL RIDGE (d)	03097500	84.3	1929-51
MAHONING RIVER AT YOUNGSTOWN (d)	03098000	898	1921-82
MILL CREEK AT YOUNGSTOWN (d)	03098500	66.3	1943-71
MAHONING RIVER AT LOWELLVILLE	03099500	1073	1942-91
LISBON CREEK AT LISBON (d)	03109000	6.19	1946-62
STATELINE CREEK NR NEGLEY (d)	03109320	3.09	1977-78
YELLOW CREEK AT HAMMONDSVILLE (d)	03110500	164	1915-35
CONSOL RUN NR BLOOMINGDALE (d)	03110983	.98	1978-81
LITT LE MUSKINGUM R AT BLOOMFIELD (d)	03115400	210	1958-81
LITTLE MUSKINGUM R AT FAY (d)	03115500	258	1915-35
TUSCARAWAS RIVER AT CLINTON (d)	03116000	174	1926-78
CHIPPEWA CREEK AT EASTON (d)	03116200	146	1960-81
TUSCARAWAS R AT CRYSTAL SPRINGS (d)	03116500	435	1921-29
SANDY CREEK AT SANDYVILLE (d)	03119000	481	1923-47
MCGUIRE CR BEL LEESVILLE DAM NR LEESVILLE (d)	03120500 *	48.3	1938-91
INDIAN F BL ATWOOD DAM NR NEW CUMBERLAND (d)	03121500	70.0	1960-75
TUSCARAWAS R BL DOVER DAM NR DOVER (d)	03122500 *	1045	1924-91
SUGAR C AB BEACH CITY DAM AT BEACH CITY (d)	03123000	160	1945-75
SUGAR C BL BEACH CITY DAM NR BEACH CITY (d)	03124000 *	300	1939-91
HOME C NR NEW PHILADELPHIA (d)	03125000	1.64	1936-79
STILLWATER CR AT PIEDMONT (d)	03126000 *	122	1939-91
STILLWATER CR AT TIPPECANOE (d)	03127000 *	282	1939-91
STILLWATER CR AT URICHSVILLE (d)	03127500 *	367	1922-91
CLEAR FORK TRIB NR HANOVER (d)	03127970	.68	1978-81
L STILLWATER C BL TAPPAN DAM AT TAPPAN (d)	03128500 *	71.1	1939-91
BLACK F BL CHARLES MILLS DAM NR MIFFLIN (d)	03130000 *	217	1939-91
TOUBY RUN AT MANSFIELD (d)	03130500	5.44	1946-78
ROCKY FORK NR MANSFIELD (d)	03131000	39.0	1925-32
BLACK FORK AT LOUDONVILLE (d)	03131500 *	349	1931-91
CLEAR FORK AT BUTLER (d)	03132000	136	1945-75
CLEAR FORK AT NEWVILLE (d)	03132500	174	1934-39
CLEAR FORK BL PLEASANT HILL DAM NR PERRYSVILLE (d)	03133500 *	198	1939-91
JEROME FORK AT JEROMEVILLE (d)	03134000	120	1925-49
LAKE FORK NR LOUDONVILLE (d)	03135500	344	1931-39
MOHICAN RIVER AT GREER (d)	03136000	948	1921-82
N B KOKOSING R NR FREDERICKTOWN (d)	03136400	45.5	1973-78
KOKOSING RIVER AT MILLWOOD (d)	03137000	455	1921-74
WALHONDING R BL MOHAWK DAM AT NELLIE (d)	03138500 *	1505	1921-91
KILLBUCK CREEK AT LAYLAND (d)	03139500	503	1923-30
SENECA F BL SENECVILLE DAM NR SENECVILLE	03141500 *	118	1938-91
SALT FORK BL SALT F DAM NR CAMBRIDGE (d)	03142295	159	1970-81
WILLS CREEK AT BIRDS RUN (d)	03142500	730	1928-39
WILLS CR BL WILLS CREEK DAM AT WILLS CREEK (d)	03143500	842	1939-91
SAND FORK NR WAKATOMIKA (d)	03144400	1.34	1978-82
OPOSSUM RUN TR NR WAKATOMIKA (d)	03144450	1.27	1978-82
MUSKINGUM RIVER AT DRESDEN (d)	03144500	5,993	1921-84
RACCOON C AT GRANVILLE (d)	03145500	82.7	1939-48

## OHIO RIVER BASIN (Continued)

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of record
NORTH FORK LICKING R AT UTICA (d)	03146000	116	1939-48
LICKING R AT TOBOSO (d)	03147000	672	1902 1904-06 1921-61
LICKING R BL DILLON DAM NR DILLON FALLS (d)	03147500 *	742	1939-91
MUSKINGUM R AT ZANESVILLE (d)	03148000	6,850	1939-55
SALT C NR CHANDLERSVILLE (d)	03149500	75.7	1935-47
MEIGS CREEK NR BEVERLY (d)	03150250	136	1972-75
HUNTERS RN AT LANCASTER (d)	03156000	10.0	1956-80
HOCKING RN AT LANCASTER (d)	03156400	48.2	1956-74
HOCKING RN NR LANCASTER (d)	03156500	90.3	1923-32
CLEAR FORK NR LOGAN (d)	03158000	14.8	1942-47
HOCKING RIVER AT ATHENS (d)	03159500	943	1915-76
SHADE R NR CHESTER (d)	03159540	156	1965-84
SANDY R AB BIG FOUR HOLLOW C NR LAKE HOPE (d)	03201600	.98	1970-81
BIG FOUR HOLLOW C BL E F NR LAKE HOPE (d)	03201660	.73	1978-81
BIG FOUR HOLLOW C NR LAKE HOPE (d)	03201700	1.01	1971-83
HULL HOLLOW C NR LAKE HOPE (d)	03201720	.22	1978-81 1921-61
SANDY RUN NR LAKE HOPE (d)	03201800	4.99	1957-78
ZINNS RUN NR RADCLIFF (d)	03201929	3.41	1988-91
STRONGS RUN NR EWINGTON (d)	03201947	15.8	1988-91
SYMMES C AT GETAWAY (d)	03205500	335	1938-47
SCIOTO R AT LARUE (d)	03217500	257	1926-35 1938-51
L SCIOTO R AB MARION (d)	03218000	72.4	1938-71
L SCIOTO R AT STP NR MARION (d)	03218500	85.8	1926-35 1938-39
L SCIOTO R NR MARION (d)	03219000	93.3	1923-25 1939
EAGON R NR WARRENSBURG (d)	03219600	.123	1949-62
OLENTANGY R NR NEW WINCHESTER (d)	03222500	49.4	1946-49
WHESTONE C NR SHAWTOWN (d)	03223500	61.8	1946-55
SHAW C AT SHAWTOWN (d)	03224000	25.4	1946-55
WHESTONE C NR ASHLEY (d)	03224500	98.7	1954-74
OLENTANGY R AT DELAWARE (d)	03226000	421	1921-23
OLENTANGY R AT STRATFORD (d)	03226500	445	1934-35 1938-58
OLENTANGY R NR WORTHINGTON (d)	03226800	497	1955-84
RUSH RUN AT WORTHINGTON (d)	03226865	1.65	1978-81
LINWORTH RD C AT COLUMBUS (d)	03226870	2.03	1978-81
BETHEL ROAD C AT COLUMBUS (d)	03226875	.22	1978-81
OLENTANGY R AT HENDERSON RD AT COL (d)	03226885	518	1978-81
SCIOTO BIG RUN AT BRIGGSDALE (d)	03228000	11.0	1946-58
ALUM CR AT KILBOURNE (d)	03228750	64.9	1973-82
SCIOTO RIVER NR CIRCLEVILLE (d)	03230000	2,638	1939-56
SCIOTO RIVER AT CIRCLEVILLE (d)	03230700	3,217	1973-79
DEER C AT MT STERLING (d)	03230800	228	1966-81
DEER C AT WILLIAMSPORT (d)	03231000 *	333	1926-35 1938-56 1962-91
PAINT C NR GREENFIELD (d)	03232000	249	1926-35 1939-56 1966-81
RATTLESNAKE C AT CENTERFIELD (d)	03232300	209	1971-81
PAINT C BL PAINT CREEK DAM NR BAINBRIDGE (d)	03232470 *	570	1963-91
SALT C AT TARLTON (d)	03235000	11.5	1946-61
TAR HOLLOW C AT TAR HOLLOW STATE PARK (d)	03235500	1.35	1946-78
SALT C NR LONDONDERRY (d)	03236000	286	1938-50
L SALT C NR JACKSON (d)	03236500	76.1	1925-32
L MIAMI R NR SELMA (d)	03239000	48.9	1952-58
N F L MIAMI R NR PITCHIN (d)	03239500	28.9	1952-58
N F MASSIE C AT CEDARVILLE (d)	03240500	28.9	1954-68
S F MASSIE C NR CEDARVILLE (d)	03241000	17.1	1954-68
L MIAMI R AT SPRING VALLEY (d)	03242000	360	1925-35 1939-51
L MIAMI R NR SPRING VALLEY(d)	03242050	366	1968-83

## OHIO RIVER BASIN (Continued)

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of record
CAESAR C NR XENIA (d)	03242150	71.4	1900 1968-83
ANDERSON F NR NEW BURLINGTON (d)	03242200	77.8	1968-83
CAESAR C AT HARVEYSBURG (d)	03242300	209	1960-75
CAESAR C NR WELLMAN (d)	03242350	239	1965-74
L MIAMI R NR FORT ANCIENT (d)	03242500	680	1939-51
TODD FORK NR WILMINGTON (d)	03243000	22.2	1923 1942-44
COWAN C NR WILMINGTON (d)	03243500	32.0	1942-50
TODD FORK NR ROACHESTER (d)	03244000	219	1952-74
E F L MIAMI R NR DODSONVILLE (d)	03246000	91.4	1947-48
E F L MIAMI R NR MARATHON (d)	03246200	195	1968-83
E F L MIAMI R AT WILLIAMSBURG (d)	03246500	237	1949-53 1960-74
E F L MIAMI R NR BANTAM (d)	03247000	330	1948-53
SHAYLER RUN NR PERINTOWN (d)	03247400	11.8	1968-73
L MIAMI R AT PLAINVILLE (d)	03248000	1,713	1965-71
MILL C AT READING (d)	03255500	73.0	1939-91
W F MILL C AT MT HEALTHY (d)	03256000	7.90	1949-53
W F MILL C NR GREENHILLS (d)	03257000	29.9	1945-53
W F MILL C AT WOODLAW (d)	03257500	32.2	1952-83
W F MILL C AT LOCKLAND (d)	03258000	35.6	1938-57
STONY C NR DEGRAFF (d)	03260800	59.1	1957-75
G MIAMI R AT QUINCY (d)	03261000	405	1946-49
G MIAMI R AT PIQUA (d)	03262500	866	1914-17
GREENVILLE C NR GREENVILLE (d)	03263500	142	1929-31
STILLWATER R AT COVINGTON (d)	03264500	437	1930-35
MAD R AT TREMONT CITY (d)	03267500	264	1931-33 1965-74
CHAPMAN C AT TREMONT CITY (d)	03267600	24.0	1967-69
MOOR[B]E RUN NR EAGLE CITY (d)	03267700	18.2	1965-72
MAD RIVER AT EAGLE CITY (d)	03267800	307	1965-71
BUCK C NR NEW MOOREFIELD (d)	03267950	30.5	1967-76
E F BUC[AK] C NR NEW MOOREFIELD (d)	03267960	28.7	1967-76
BUCK C AT NEW MOOREFIELD (d)	03268000	65.3	1942-58
BEAVER C NR SPRINGFIELD (d)	03268500	39.2	1942-58 1972-76
BUCK C AT SPRINGFIELD (d)	03269000	139	1914-21 1924-49 1973-74
WOLF C AT TROTWOOD (d)	03270800	22.7	1962-84
SEVENMILE C AT COLLINSVILLE (d)	03272800	120	1960-62
SEVENMILE C AT SEVENMILE (d)	03273000	135	1914-20
FOURMILE C NR HAMILTON (d)	03273500	307	1937-60
G MIAMI R AT VENICE (d)	03274500	3,789	1915-27 1932-33

The following stations were discontinued as continuous-record surface-water-quality stations prior to the 1991 water year. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the record shown for each station.

OHIO RIVER BASIN				
Station name	Station number	Drainage area (mi <sup>2</sup> )	Type of record	Period of record
BEECH CREEK NR BOLTON	03087000		Temp.	1043-56
BEECH CREEK NR BOLTON	03087000	17.4	Temp.	1943-51
MAHONING R AB DUCK C AT LEAVITTSBURG	03093800	542	Temp., S.C., D.O., pH	1968-81
MAHONING RIVER AT WARREN	03094500	594	Temp.	1924-35
MAHONING RIVER AT LOWELLVILLE	03099500	1,073	Temp.	1953-61
MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE	03099510	1,075	Temp., S.C., D.O., pH	1963-67
OHIO RIVER AT STRATTON	03110700	23,500	Temp.	1967-91
CONSOL RUN NR BLOOMINGDALE	03110983	.98	S.C.	1961
TUSCARAWAS R AT NAVARRE	03117100	534	S.C.	1964-70
BLACK FORK AT LONDONVILLE	03131500	349	Sed.	1979-81
SAND FORK NR WAKATOMIKA	03144400	1.34	Temp., S.C., D.O., pH	1968-84
NORTH FORK LICKING R AT UTICA	03146000	116	Temp., S.C., D.O., pH	1987-91
LICKING R NR NEWARK	03146500	537	Temp., S.C., D.O., pH	1968-76
MUSKINGUM R AT PHILO	03149200	7,196	Sed.	1978-81
MUSKINGUM R NR BEVERLY	03150300	7,626	Temp.	1970-73
B. HUNTERS RUN NR HOOKER	03155900	104	Temp.	1962-68
HOCKING RIVER AT ATHENS	03159500	943	Temp., S.C., D.O., pH	1968-80
HOCKING RIVER BELOW ATHENS	03159510		Temp., S.C., D.O., pH	1965-74
SANDY R AB BIG FOUR HOLLOW C NR LAKE HOPE	03201600	98	S.C.	1964-70
BIG FOUR HOLLOW C NR LAKE HOPE	03201700	1.01	Sed.	1956-62
SANDY RUN NR LAKE HOPE	03201800	4.99	Temp.	1954-64
RACCOON CREEK AT ADAMSVILLE	03202000	585	Cond.	1964-65
WHESTONE C NR ASHLEY	03224500	98.7	Sed.	1956-65
OLENTANGY R NR WORTHINGTON	03226800	497	Temp., S.C., D.O.	1966-72
RUSH RUN AT WORTHINGTON	03226865	1.65	Temp., S.C., D.O., pH	1972-80
LINWORTH RD C AT COLUMBUS	03226870	2.03	Temp., S.C., pH	1971-78
BETHEL ROAD C AT COLUMBUS	03226875	.22	Temp., S.C., pH	1971-83
OLENTANGY R AT HENDERSON RD AT COL	03226885	518	Sed.	1978-83
ALUM CR AT AFRICA	03228805	122	Temp., S.C.	1965-70
SCIOTO RIVER BL SHADEVILLE	03229600	2,266	Temp., S.C., D.O.	1965-80
PAINT C NR GREENFIELD	03232000	249	pH	1971-80
RATTLESNAKE C AT CENTERFIELD	03232300	209	Temp.	1974-78
SALT C NR LONDONDERRY	03235995	268	Temp.	1973-74
SCIOTO RRIVER AT LUCASVILLE	03237100	6,178	Temp.	1956-74
MIAMI R NR SELMA	03239000	48.9	S.C.	1965-74
N F L MIAMI R NR PITCHIN	03239500	28.9	Temp., Sed.	1952-58
N F MASSIE C AT CEDARVILLE	03240500	28.9	Temp., Sed.	1952-58
S F MASSIE C NR CEDARVILLE	03241000	17.1	Temp., Sed.	1954-68
L MIAMI R NR SPRING VALLEY	03242050	366	Temp., S.C., D.O., pH	1954-68
CAESAR C AT HARVEYSBURG	03242300	209	Temp., S.C., D.O., pH	1968-80
TODD FORK NR ROACHESTER	03244000	219	Temp., S.C.	1970-75
L MIAMI R AT MIAMIVILLE	03245300	1,189	Temp., Sed.	1952-58
L MIAMI R AT MILFORD	03245500	1,203	Temp., S.C., D.O., pH	1970-75
E F L MIAMI R AT WILLIAMSBURG	03246500	237	Temp., S.C., D.O., pH	1975-84
G MIAMI R AT TIPP CITY	03262745	970	Sed.	1978-84
MAD RIVER AT EAGLE CITY	03267800	307	Temp., S.C.	1970-75
BUCK C AT NEW MOOREFIELD	03268000	65.3	Temp., S.C., D.O., PH	1978-80
MAD RIVER NR DAYTON	03270000	635	Temp., S.C., D.O., PH	1965-69
G MIAMI R NR STEWART ST AT DAYTON	03271075	2,587	Temp., S.C., D.O., PH	1970-76
G MIAMI R NR MIAMISBURG	03271600	2,715	Temp., S.C., D.O., pH	1968-80
G MIAMI R AT ROCKDALE	03272410	3,275	Temp., S.C.	1966
G. MIAMI R AT NEW BALTIMORE	03274600	3,814	Temp., S.C., D.O.	1968-82
G MIAMI R AT ELIZABETHTOWN	03276600	5,356	pH	1975-82
			Temp.	1956-74
			S.C.	1964-74

## GROUND-WATER STATIONS FOR WHICH RECORDS ARE PUBLISHED

(Letter after station location designates type of data: (c) chemical, (1) water level.)

<u>Well number</u>	<u>Local number</u>	<u>Location</u>	<u>Page</u>
<b>ASHLAND COUNTY</b>			
405303082170700	AS-2	Ashland (1).....	173
405425082173000	AS-3	Jerome Fork (1).....	174
<b>ATHENS COUNTY</b>			
392004082071600	AT-2A	Athens (1).....	175
392009082072200	AT-5	Athens (1).....	176
<b>AUGLAIZE COUNTY</b>			
403233083574500	AU-3	Southwest of New Hampshire (1).....	177
<b>BELMONT COUNTY</b>			
400118081082200	B-3	Mount Olivett (1).....	178
<b>BUTLER COUNTY</b>			
391805084261800	BU-9	Northwest of Sharonville (1).....	179
391904084371800	BU-12	East of Ross (1).....	180
392017084345200	BU-7	Fairfield (1).....	181
392021084340300	BU-56	Fairfield (1).....	182
392048084311400	BU-8	East of Hamilton (1).....	183
392445084333000	BU-36	Hamilton (c).....	184
393202084241500	BU-15	Middletown (1).....	185
392733084293000	BU-16	Wayne (1).....	186
392939084231700	BU-3	Middletown (1).....	187
393103084240900	BU-2	Middletown (1).....	188
<b>CARROLL COUNTY</b>			
403709081052800	C-1	North of Carrollton (1).....	189
<b>CHAMPAIGN COUNTY</b>			
400638083453900	CH-3	Urbana (1).....	190
<b>CLARK COUNTY</b>			
395639084012200	CL-9	New Carlisle (1).....	191
395840083495200	CL-7	Northwest of Springfield (1).....	192
<b>COSHOCTON COUNTY</b>			
401256081525100	CS-3	North of Conesville (1).....	193
401735081523800	CS-2	Coshocton (1).....	194
<b>DARKE COUNTY</b>			
400514084345700	D-2	East of Greenville (1).....	195
<b>DELAWARE COUNTY</b>			
402126083040400	DL-3	Delaware (1).....	196
<b>FAIRFIELD COUNTY</b>			
393450082403600	F-7	Southeast of Amanda (1).....	197
394257082362900	F-6	Lancaster (1).....	198
394544082271000	F-1	West Rushville (1).....	199
395053082361900	F-5	Baltimore (1).....	200
<b>FAYETTE COUNTY</b>			
393153083322000	FA-1	West of Washington Court House (1).....	202
<b>FRANKLIN COUNTY</b>			
394956083002700	FR-18	South of Shadeville (1).....	202
395118082573300	FR-3	Southwest of Rees (1).....	203
400101083021800	FR-10	Columbus (1).....	204
<b>GALLIA COUNTY</b>			
383638082103300	G-2	East of Crown City (1).....	205
<b>GREENE COUNTY</b>			
394330083531400	GR-11	Near Wilberforce (1).....	206
394411083561300	GR-1	North of Xenia (1).....	207
394425083551100	GR-10	North of Xenia (1).....	208
<b>HAMILTON COUNTY</b>			
391039084291500	H-11	Cincinnati (1).....	209
391101084172100	H-3	Southeast of Miami (1).....	210
391201084281600	H-10	Cincinnati (1).....	211
391214084470100	H-1	Southeast of Harrison (1).....	212
391324084272500	H-9	Cincinnati (1).....	213
391341084275300	H-8	Wyoming (1).....	214
391442084262900	H-7	Evendale (1).....	215
391608084254400	H-6	Glendale (1).....	216
391733084392400	H-2	South of Ross (1).....	217
391748084393800	H-19	Southwest of Venice (c).....	218
391817084393300	H-4	Southwest of Ross (1).....	219
<b>HARDIN COUNTY</b>			
404218083503700	HN-1	Alger (1).....	220
<b>HOCKING COUNTY</b>			
393200082235300	HK-1	Logan (1).....	221
<b>KNOX COUNTY</b>			
402344082300700	K-1	Mt. Vernon (1).....	222

## GROUND-WATER STATIONS FOR WHICH RECORDS ARE PUBLISHED

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(Letter after station location designates type of data: (c) chemical, (l) water level.)

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395301083272200	M-2	London (l).....	223
395352083292100	M-5	Northwest of London (l).....	224
395357083304400	M-4	Northwest of London (l).....	225
395740083255700	M-3	North of London (l).....	226
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410042080453800	MA-1	Canfield (l).....	227
<b>MARION COUNTY</b>			
403413083170500	MN-4	Southeast of New Bloomington (l).....	228
403443083230400	MN-1	LaRue (l).....	229
403601083110400	MN-2	West of Marion (l).....	230
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402833084375200	MR-2	Coldwater (l).....	232
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400308084112900	MI-44	Troy (c).....	234
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393757084173600	MT-928	Miamisburg (c).....	235
394012084151700	MT-55	West Carrollton (l).....	236
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394811084095000	MT-74	Dayton (l).....	240
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411401081025000	PO-1	Windham (l).....	248
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391341083172200	RO-7	West of Bainbridge (l).....	251
391913082580500	RO-8	Chillicothe (l).....	252
<b>SHELBY COUNTY</b>			
401712084103500	SH-4	Sidney (l).....	253
<b>STARK COUNTY</b>			
404939081203800	ST-5A	Canton (l).....	254
405211081253500	ST-27	North Canton (l).....	255
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411604080505600	T-3	Near Warren (l).....	256
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403557081313600	TU-4	Strasburg (l).....	258
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403823081324200	TU-5	Near Strasburg (l).....	260
<b>UNION COUNTY</b>			
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402010083321900	U-5	East of East Liberty (l).....	262
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392553081281600	WA-2	Marietta (l).....	265
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VOLUME 2: ST. LAWRENCE RIVER BASIN  
STATEWIDE PROJECT DATA

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey (USGS), in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Ohio each water year. These data, accumulated during many years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series entitled "Water Resources Data—Ohio."

This report (in two volumes) includes records on surface water and ground water in the State. Specifically, it contains: (1) Discharge records for 121 streamflow-gaging stations, 203 miscellaneous sites, and 17 crest-stage stations; (2) stage and content records for 5 streams, lakes, and reservoirs; (3) water-quality data for 21 streamflow-gaging stations, 336 wells, 90 synoptic sites, and 72 partial-record sites; and (4) water levels for 312 observation wells. Locations of lake- and streamflow-gaging stations, water-quality stations, and observation wells for which data are presented in this volume are shown in figure 9. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Ohio.

This series of annual reports for Ohio began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report was changed to present, in two to three volumes, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several years concurrent with it, water-resources data for Ohio were published in a series of U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage through September 1960 were published annually under the title "Surface-Water Supply of the United States, Parts 3 and 4." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on the chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and ground-water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above-mentioned Water-Supply Papers can be consulted in the libraries of the principal cities of the United States, and can be purchased from the Books and Open-File Reports Section, U.S. Geological Survey, Box 24525, Federal Center, Denver, CO 80225.

Publications similar to this report are published annually by the USGS for all States. These official USGS reports are identified by means of a number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report OH-92-2." For archiving and general distribution, the reports for 1971-74 water years are also identified as water-data reports. These water-data reports can be purchased in paper copy or in microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

Additional information for ordering specific reports, including current prices, may be obtained by writing the District Chief at the address given on the back of title page or by telephoning (614) 469-5553. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

COOPERATION

The U.S. Geological Survey and agencies of the State of Ohio have had cooperative agreements for the collection of water-resource data since 1898. The following organizations assisted in collecting data in this report:

Ohio Department of Natural Resources, Frances Buchholzer, Director;  
Ohio Department of Natural Areas and Preserves, Ralph Ramey, Chief;  
Ohio Environmental Protection Agency, D. R. Schregardus, Director;  
Ohio Department of Transportation, Jerry H. Wray, Director;  
Miami Conservancy District, J. L. Rozelle, General Manager and Chief Engineer;  
City of Columbus Department of Public Service, J. R. Doust, Administrator;  
City of Canton Water Department, J. D. Williams, Superintendent;  
Ross County, James Kennard, Administrative Assistant;  
Summit County, Jeffrey Lintern, Director, Environmental Services;  
Seneca Soil and Water Conservation District, Norman Daniel, Board Chairman;  
University of Toledo, R. Gallagher;  
Cuyahoga River Community Planning Organization, John Becker;  
Northeast Regional Sewer District, E. J. Deal, Executive Director;  
City of Fremont, Warren Curtis, City Engineer;  
City of Akron, Linda Sowa, Administrator;  
Northeast Regional Sewer District, E. J. Deal, Executive Director;

## COOPERATION--Continued

City of Lima, A. Godsey, City Sanitary Engineer;  
 Estate Development and Transportation Agency, J. Wells, Environment Project Manager;  
 U.S. Air Force, Air Force Logistics Command, A. F. Sculimbrenne, Office of Environmental Management;  
 Toledo Metropolitan Area Council of Governments, K. Erickson, Director of Regional Planning;  
 Ohio State University, Ohio Agricultural Research and Development Center (OARDC), Professor Warren Dick;  
 Ohio State University Research Foundation, Sharon Coulter, Associate Director;

Funds or services were provided by the U.S. Army Corps of Engineers in collecting data for 72 hydrologic-data stations in this report. The Miami Conservancy District, U.S. Army Corps of Engineers, and Ohio Department of Natural Resources aided in collecting data.

## SUMMARY OF HYDROLOGIC CONDITIONS

Ohio is part of three physiographic provinces, each with its own distinctive hydrologic characteristics. The topography of the Till Plains section of the Central Lowlands physiographic province (fig. 1) consists of gently rolling ground moraine, bands of terminal moraine, and outwash-filled valleys. Glaciation altered the courses of most streams in this area. The Eastern Lake Plains section (fig. 1) consists of wide expanses of level or nearly level land interrupted only by the sporadic sandy ridges that are the last visible remnants of glacial-lake beaches. Much of the area was swamp prior to development, and marshes are still present along Lake Erie near Toledo. The Lexington Plains section of the Interior Low Plateau province (fig. 1) is characterized by rolling terrain and a few isolated large hills and ridges. The "barbed" drainage pattern formed when small streams were captured as their headwaters cut back into the hills over time. Streams have carved the Kamala section of the Appalachian Plateaus province (fig. 1) into an intricate series of hollows and steep-sided ridges. Only the large streams in the section have any appreciable flood plain. In the southern New York section (fig. 1), successive waves of glaciation have subdued the relief, buried many precocial valleys, and rerouted many streams.

Precipitation

The average annual precipitation in Ohio is about 38 inches. The annual precipitation decreases from around 42 inches on the southern border to about 32 inches in the northwest. An anomalous area of high precipitation (as much as 44 inches) in northeastern Ohio results from air masses that pick up moisture and heat from Lake Erie and subsequently release precipitation over a range of hills stretching northeastward from Cleveland.

Monthly precipitation typically is greatest from May through July and least in October, December, and February. Of the approximate 38 inches of average annual precipitation, about 10 inches runs off immediately, 2 inches is retained at or near the surface and evaporates and transpires, and 26 inches enters the ground. Of the 26 inches that enters the ground, 20 inches is retained in the unsaturated zone and is later lost by evapotranspiration. The remaining 6 inches reaches the water table. Of this 6 inches, 2 inches eventually discharges to streams, and the rest is lost by evapotranspiration and consumptive use. Average runoff ranges from about 15 to 18 inches along the southern border to about 8 to 12 inches along most of the northern border, except in the northeast, where runoff is as much as 20 inches. The pattern of streamflow differs from the pattern of precipitation because of the contributions of snowmelt to streamflow in the early spring and the reduction in flows by evapotranspiration from June through September.

Surface WaterStreamflow

Streamflow-data-collection stations are distributed irregularly throughout the State, and tend to be concentrated on the main river systems. The stations are used to sample a wide variety of conditions. The drainage areas range from 12 to 7,420 square miles and represent a wide diversity of topography and other physical characteristics. Streamflow ranges from unregulated to highly regulated.

Statewide streamflow, water year 1992

At the beginning of water year 1992, most of the State was experiencing a severe drought; extreme drought conditions prevailed in central and northeastern Ohio. Streamflow for October through February was in the deficient range for most of the State, except for northwestern Ohio where generally excessive flows prevailed in response to above-normal precipitation.

Streamflow was in the normal<sup>1</sup> to below-normal range during March through June as extreme drought conditions continued in central and northeastern Ohio. In northeastern Ohio, streamflow was in the deficient range for the first 9 months of the water year.

Above-normal precipitation in July (the wettest July on record of 110 years for statewide average) effectively ended the drought and resulted in excessive streamflow throughout the State. Flash flooding in the south-central part of the State on July 26 caused severe property damage and loss of life.

Precipitation for the remainder of the water year was generally above normal, and streamflow was in the excessive range for most of the State.

<sup>1</sup>For streamflow, "normal" is defined as being between the 25th and 75th percentiles as measured during the base period water years 1951-80.

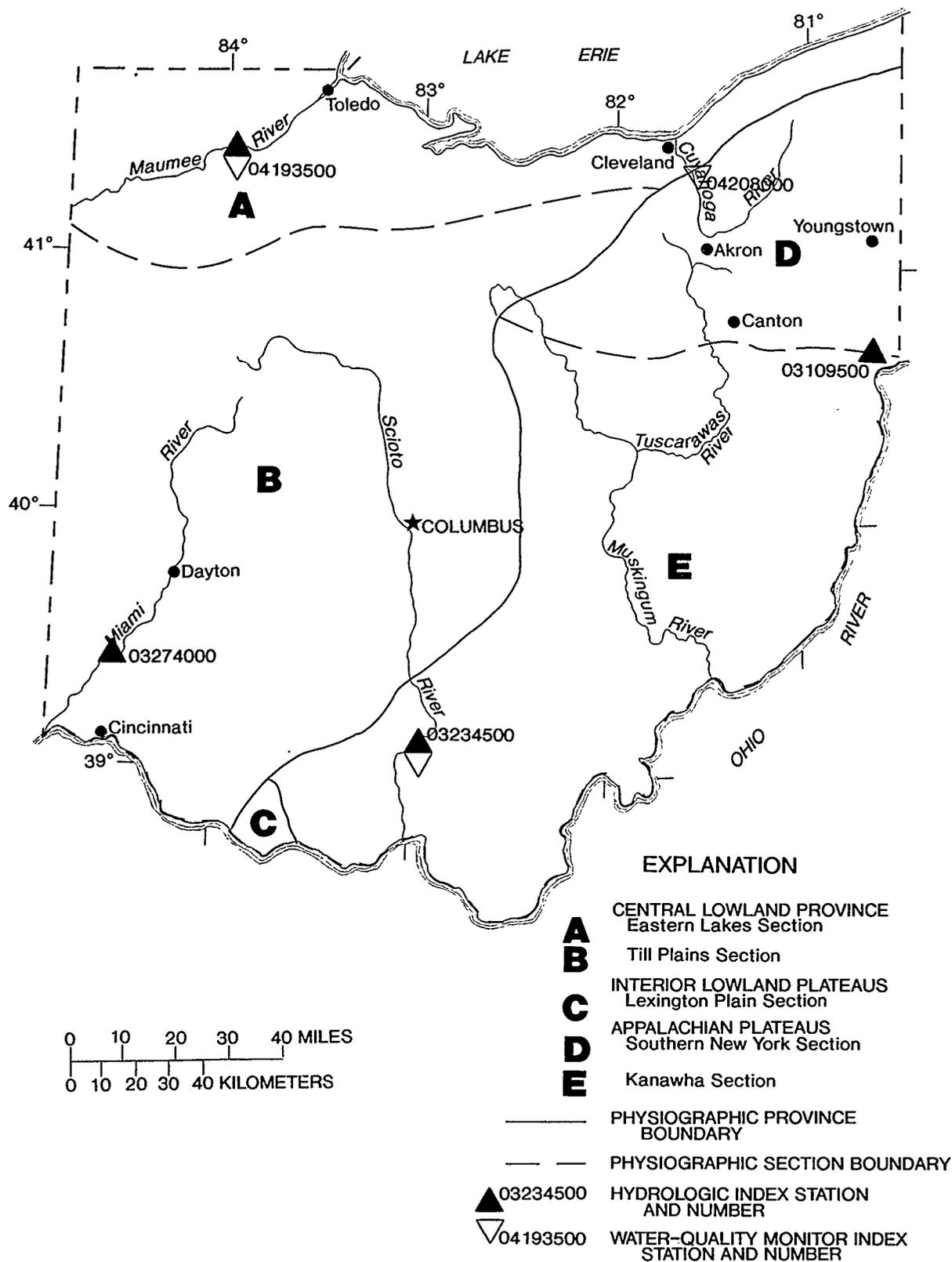


Figure 1.--Physiographic divisions and location of Hydrologic Index Stations.

### Water Quality

The U.S. Geological Survey collects long-term water-quality data in Ohio at 10 fixed stations (fig. 1). Nine NASQAN (National Stream Quality Accounting Network) stations are in major river basins in Ohio, and one Hydrologic Benchmark station is in a small, relatively pristine basin in southern Ohio. Samples are collected quarterly at six stations, bimonthly at three stations, and monthly at the Benchmark station. Because of the fixed schedule, samples are collected at a variety of streamflows (fig. 2). Samples are analyzed for major anions and cations, nutrients, trace elements, suspended sediment, selected physical properties, and fecal coliform and fecal streptococci.

Box plots of selected constituents measured from 1982 through 1991 are shown in figure 3. Results of analysis of samples collected in water year 1992 are superimposed on the box plots and are represented by solid circles.

Chloride concentrations, commonly associated with municipal or industrial point sources of discharge, generally followed the distribution of concentrations measured during the previous 11-year period at most stations. In the lower Grand River basin, chloride concentrations were lower than the extremely high concentrations found in previous years. In this area, salt mining and processing as well as runoff from abandoned chemical-industry properties most likely contribute to high chloride concentrations. At all sites, the concentration of chloride generally increased as streamflow decreased.

Nitrate concentration is of concern for public water supplies--the maximum contaminant level is 10 milligrams per liter (as N) for finished drinking water. In Ohio streams, fertilizers are a major source of nitrate. The highest concentration of nitrate plus nitrite in water year 1992 was found in the Maumee River. Concentrations in the Muskingum, Hocking, and Grand Rivers did not vary greatly and were less than 3 milligrams per liter.

Agricultural runoff and municipal and industrial point discharges are the major sources of phosphorus. In the Hocking, Scioto, and Cuyahoga Rivers, total-phosphorus concentrations for water year 1992 were near or below the 11-year median concentrations. Total-phosphorus concentrations were greatest and most variable in the Great Miami and Little Miami Rivers and ranged from 0.190 to 0.660 milligrams per liter. The basins drained by these rivers contain agricultural and urban lands that contribute runoff of agricultural chemicals and discharges from municipal and industrial point sources.

For most sites, fecal-coliform and dissolved-solids concentrations for water year 1992 were similar to concentrations found in the previous 11-year period. At the great Miami River at Hamilton, however, fecal-coliform concentrations in all samples were less than the 25th percentile. At this site, measured streamflows for 1992 were all below the median value generated for data from 1982 through 1991.

Water-quality monitors at two NASQAN stations (Maumee River at Waterville and Cuyahoga River at Independence) were discontinued in 1992. Data from the remaining water-quality monitor at Scioto River at Higby was used to calculate annual mean temperature, dissolved-oxygen concentration, pH, and specific conductance for water year 1992. The 1992 mean values were compared with the annual means from 1982-91 at this site. Mean pH and specific conductance were slightly higher and mean temperature and dissolved oxygen were slightly lower than for the previous 10-year period, probably because of a lower than average discharge for the year.

### Ground Water

Ground water serves the needs of 42 percent of Ohio's population. An estimated 740 million gallons of ground water per day is withdrawn for domestic, industrial, and agricultural purposes. Many people in Ohio depend on ground water as the only practical source of supply.

Ohio's unconsolidated aquifers are composed of either coarse- or fine-grained sediments. Both types are composed mainly of materials of glacial origin. The coarse-grained unconsolidated aquifers generally consist of highly permeable sand and gravel. Much of the sand and gravel is alluvium derived from glaciofluvial outwash along the courses of some modern streams; thus, these aquifers sometimes are referred to as "watercourse" aquifers. Coarse-grained unconsolidated aquifers in the northwestern corner of the State (fig. 4) underlie glacial till, are locally confined under artesian pressure, and are highly productive. Extensive kame-terrace deposits of water-bearing gravel and sand are widely used ground water sources in northeastern Ohio. The fine-grained unconsolidated aquifers are similar to the coarse-grained unconsolidated aquifers in form and origin but are less permeable because of higher percentages of mixed fine sand, silt, and clay. Included in the fine-grained unconsolidated aquifers are tills that contain thin or localized stratified lenses of sand and gravel.

Ground-water supply for much of the unglaciated upland area of southeastern Ohio is from bedrock aquifers composed of shaly sandstone and thin limestone. These strata, which range from Mississippian to Permian in age, are dominated by low-yielding shales and shaly sandstones that include numerous coal-bearing strata. In some places, small water supplies are available from fractured coal beds. Several sandstone aquifers in northeastern Ohio are of regional extent and are major ground-water sources for individual and small public supplies. These include the Berea and Black Hand Sandstones of Mississippian age and several sandstone members of the Pottsville and Allegheny Formations of Pennsylvanian age. The Lake Erie coastline of northeastern Ohio is underlain by shale of Devonian and Mississippian age (fig. 4) that yields only small amounts of water to wells. Silurian-age limestone and dolomite and Devonian limestone comprise the carbonate aquifer system (fig. 4) of much of western Ohio. Glacial cover is uneven and consists of valley fill and terminal moraine in some places. The northeastern part of western Ohio contains an area of high-yielding wells that tap a preferentially weathered zone, which developed when carbonate section was periodically exposed as land mass during the Paleozoic Era. The southwestern corner of Ohio near Cincinnati is underlain by shale and a thin limestone aquifer of Ordovician age. Away from the watercourse (coarse unconsolidated) aquifers that traverse the area, the rocks that form the uplands yield only very small amounts of ground water.

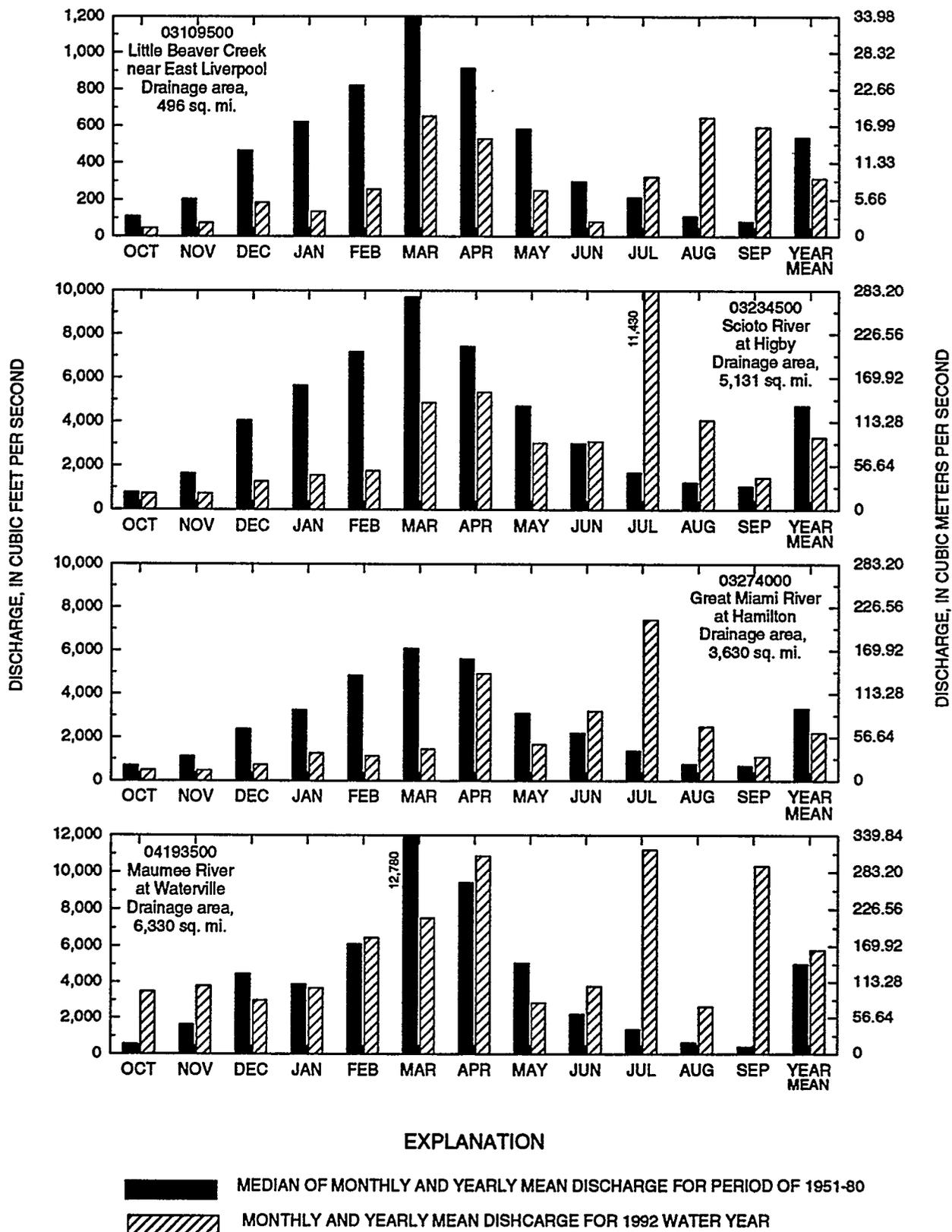


Figure 2.--Runoff during 1992 water year compared with median runoff for period 1951-80 for four representative gaging stations.

WATER RESOURCES DATA FOR OHIO, 1992

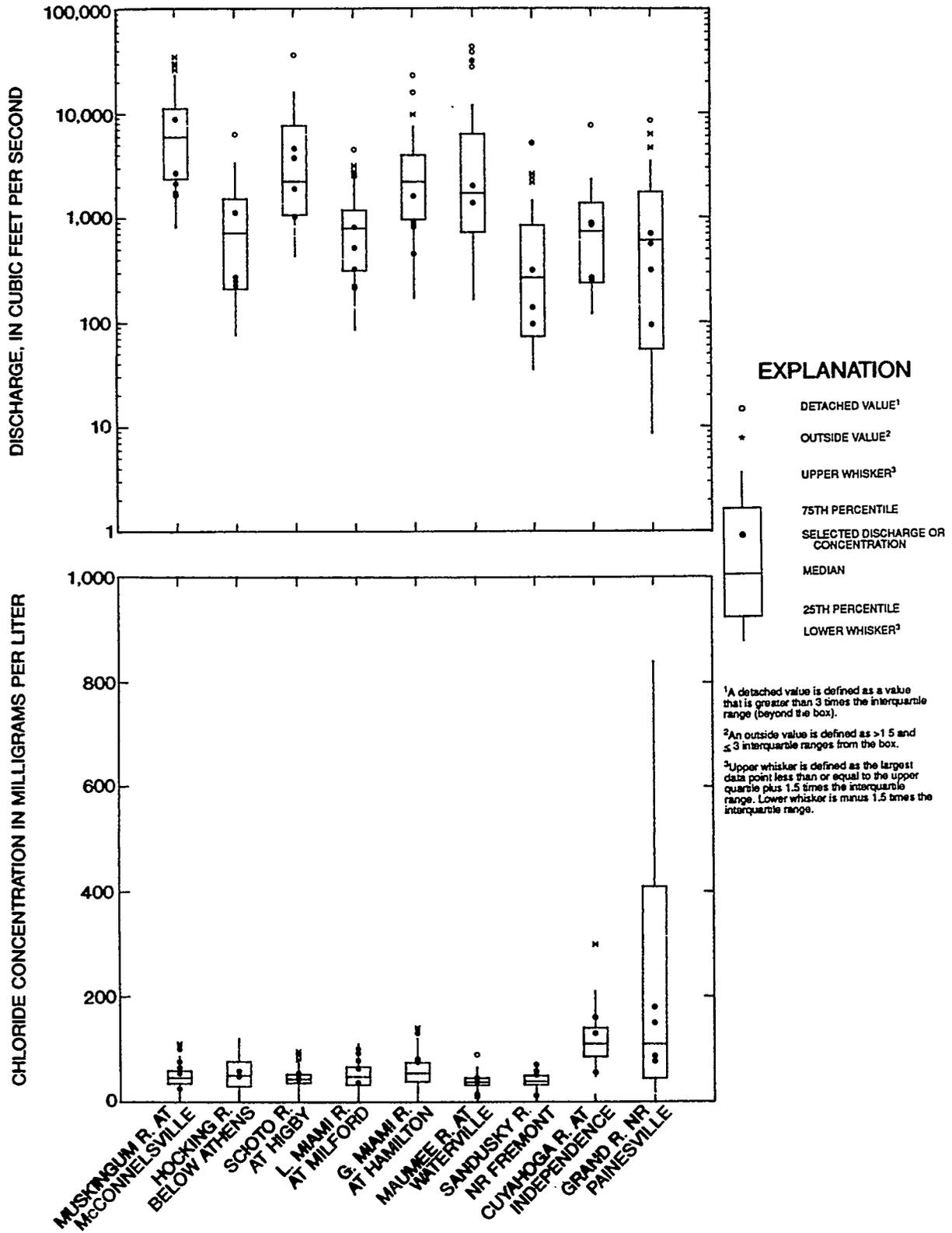


Figure 3.—Discharge and chemical concentrations measured in water year 1992 and the distribution of those constituents from measurements made during water years 1981-90 at NASQAN stations

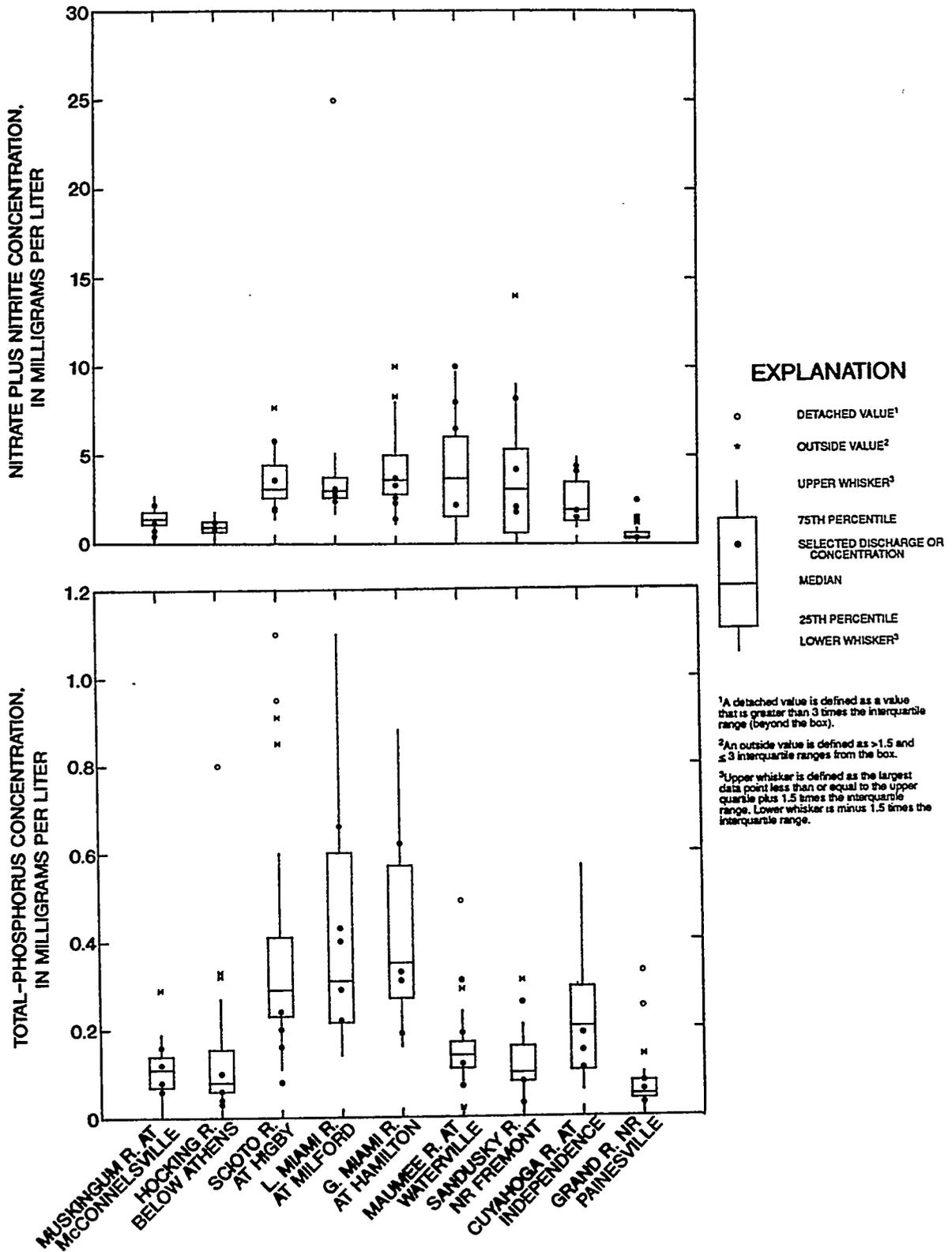


Figure 3.—Discharge and chemical concentrations measured in water year 1992 and the distribution of those constituents from measurements made during water years 1981-90 at NASQAN stations—Continued.

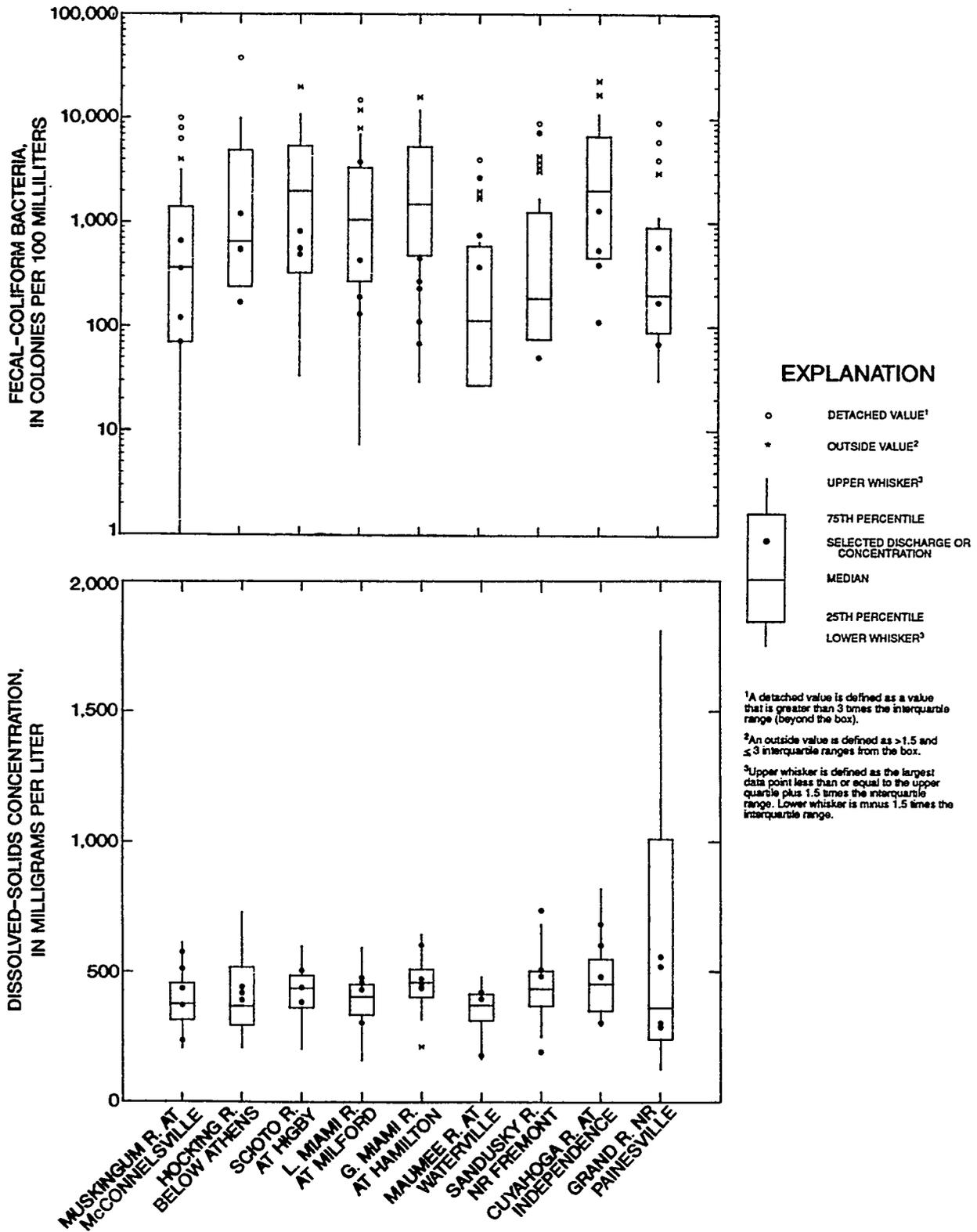


Figure 3.—Discharge and chemical concentrations measured in water year 1992 and the distribution of those constituents from measurements made during water years 1981–90 at NASQAN stations—Continued.

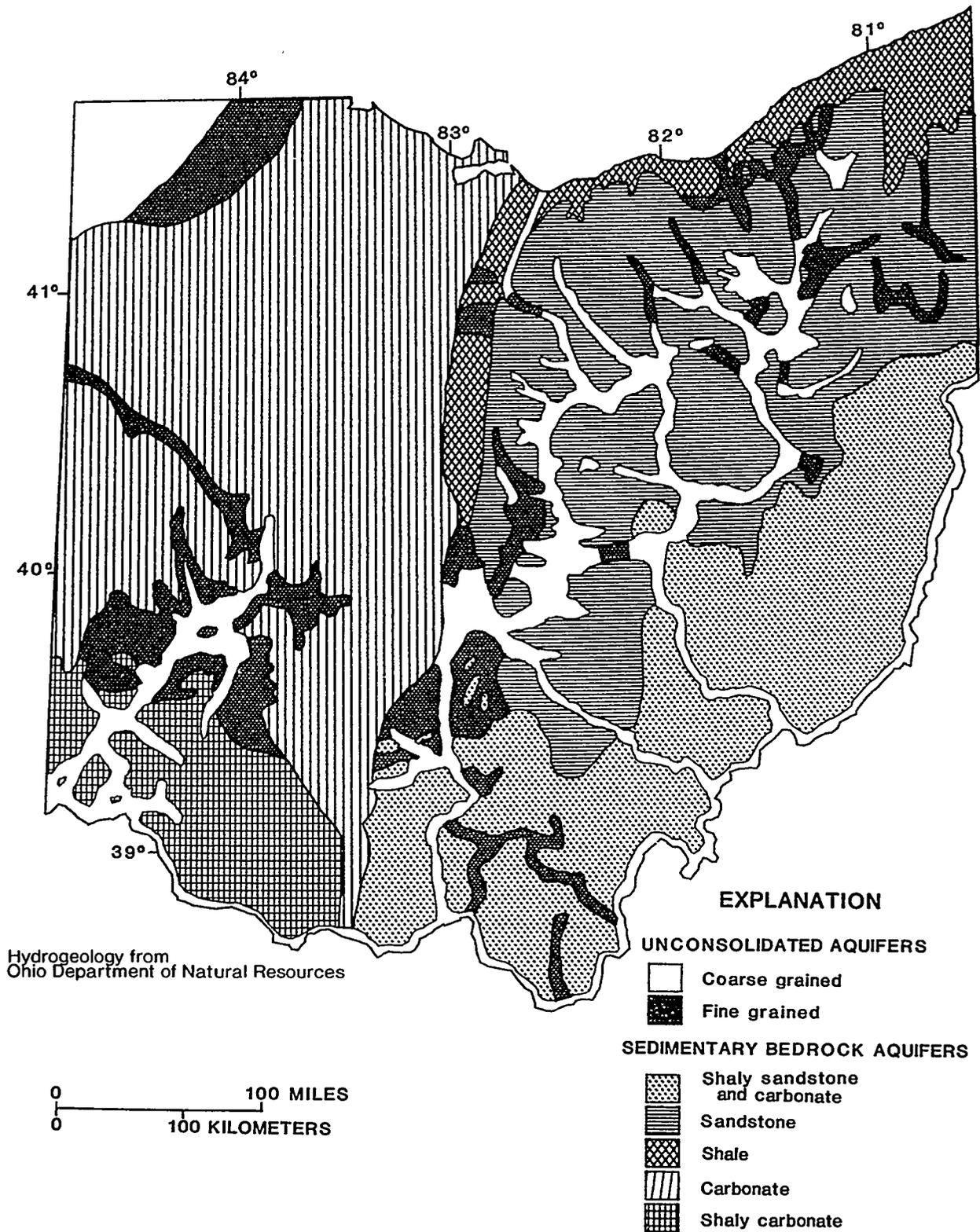


Figure 4.--Geographic distribution of principal aquifers in Ohio.

### Ground-Water Levels

Most ground-water observation wells in Ohio tap unconsolidated sand and gravel aquifers associated with the State's principal streams. Sample 1-year and 5-year hydrographs of a well completed in an unconfined unconsolidated sand-and-gravel aquifer are shown in figure 5. The observation-well network also includes some bedrock wells in areas where consolidated aquifers are heavily used for water supply, such as in the carbonate-rock region of northwestern Ohio. Sample 1-year and 5-year hydrographs of a well completed in a confined carbonate-rock aquifer are shown in figure 6. The yearly low for most wells occurs during the winter months, especially in cold, dry years or near the end of the growing season. Highs for the year usually occur from March through June, which is the peak of the recharge season. The yearly water-level fluctuation due to climatic conditions in water-table and confined-aquifer wells is commonly 3 to 5 feet, but can be as much as 10 feet.

Ground water levels at the beginning of water year 1992 were above normal because much of the State was experiencing a severe drought; in central and northeastern Ohio, drought conditions were extreme. Ground-water levels declined and remained below normal during October and November in response to continued below-normal precipitation. Record low levels were established at several observation wells during this period.

Generally, ground-water levels tended to stabilize during December through February after a return to normal precipitation in December. Ground-water levels, however, remained below normal. With the exception of deep bedrock wells, there was a general upward trend in ground-water levels in response to normal and above-normal precipitation in March and April. Levels generally remained below normal, however, most noticeably in central and northeastern Ohio, the area most severely affected by the drought.

Seasonal declines occurred in May and June, and below-normal levels prevailed statewide in bedrock wells in northwestern Ohio. Record precipitation in July reversed this downward trend and, by year's end, ground-water levels returned to normal for most of the State.

### SPECIAL NETWORKS AND PROGRAM

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analysis on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activity.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in general or regional water-quality planning and management. The approximately 500 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the U.S. Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for; (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics; and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

### EXPLANATION OF THE RECORDS

The records in this report are for the 1992 water year that began October 1, 1991 and ended September 30, 1992. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

#### Station Identification Numbers

Each data station, whether streamsite or wellsite, is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic locations. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Ohio, for surface-water stations where only miscellaneous measurements are made.

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<sup>2</sup>For ground-water levels, "normal" is defined as being between the 25th and 75th percentiles of the range of values recorded during the reference period 1960-75.

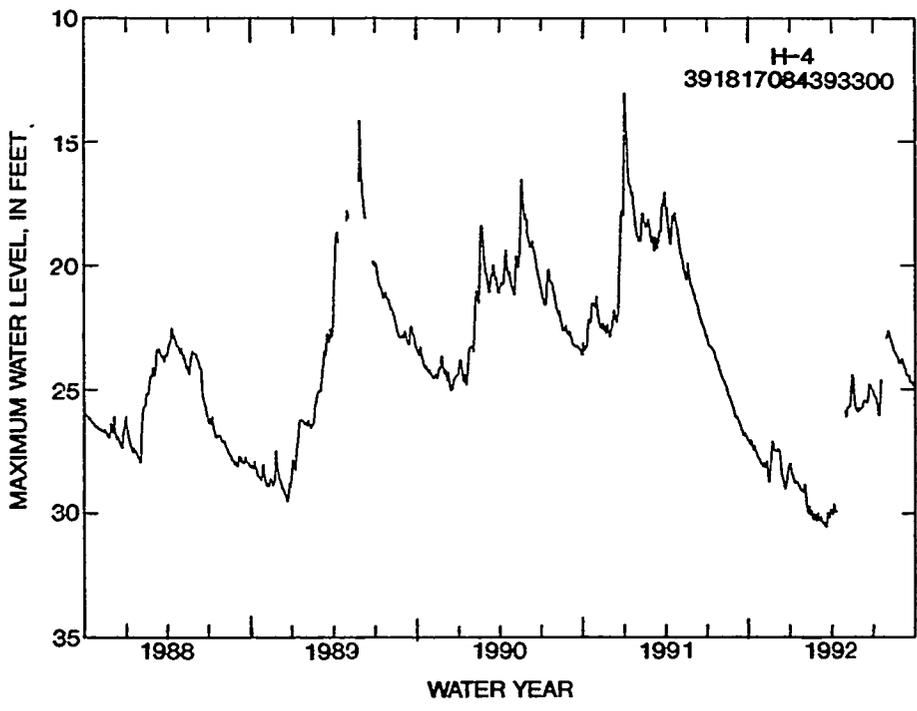
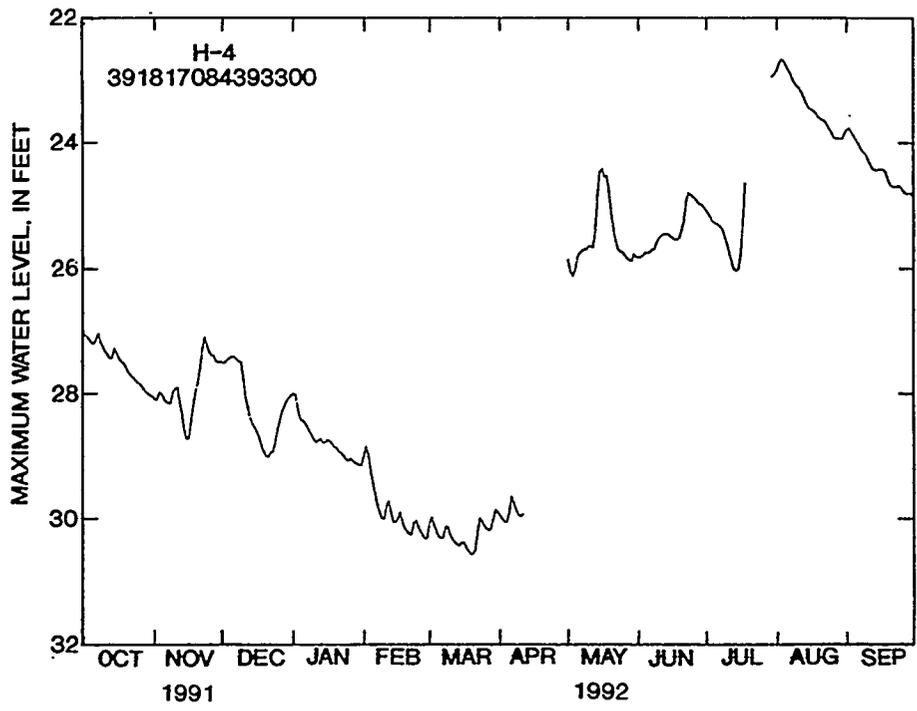


Figure 5.--Sample 1-year and 5-year hydrographs of a well completed in an unconfined unconsolidated aquifer.

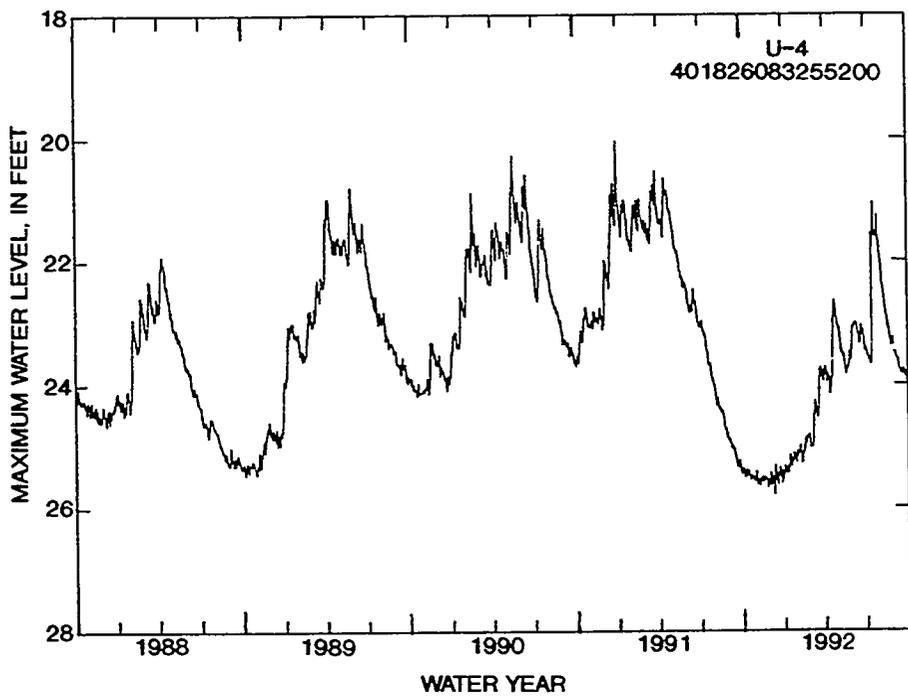
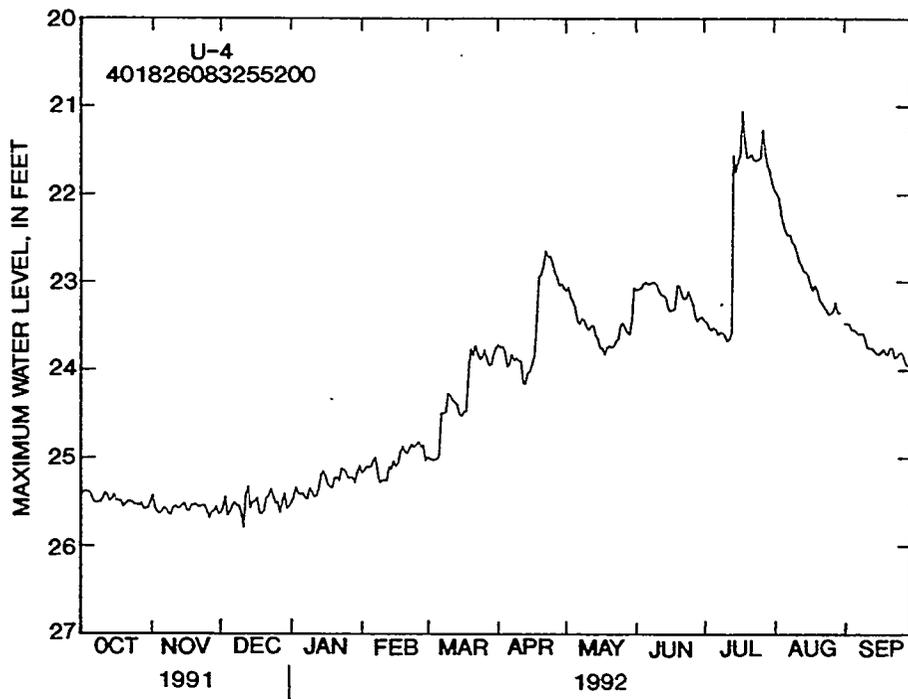


Figure 6.--Sample 1-year and 5-year hydrographs of a well completed in a confined carbonate-rock aquifer.

### Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in a "List of Stations" in the front of the report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station such as 04041000, which appears just to the left of the station name, includes the two-digit part number "04" plus the six-digit downstream order number "041000". The part number designates the major river basin; for example, part "03" is the Ohio River Basin, and part "04" is the St. Lawrence River Basin.

### Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 7.)

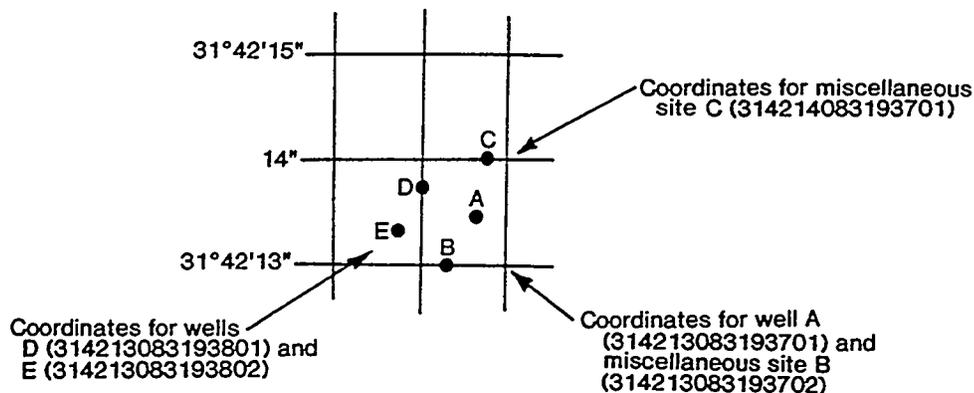


Figure 7.--System for numbering wells and miscellaneous sites (latitude and longitude).

### Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharge may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir contents, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because mean daily discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of a partial record is indicated by table titles such as "crest-stage partial records," or "low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage stations for which data are given in this volume are shown in figure 8.

### Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consists of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage, or with digital recorders that punch stage values on paper tapes or store stage data on cassette tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) Logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curve or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relation that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method, in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves, or tables defining the relationship of stage and contents. The application of stage to the stage-contents curves or tables give the contents from which daily, monthly, or yearly changes are then determined. If the stage-contents relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information.

### Data Presentation

The records published for each gaging station consist of two parts--the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

#### Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

**LOCATION.**--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileage, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

**DRAINAGE AREA.**--Drainage areas are measured using the most accurate maps available. Because the type maps available varies from one drainage basin to another, the accuracy of the drainage areas likewise varies. Drainage areas are updated as better maps become available.

**PERIOD OF RECORD.**--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

**REVISED RECORDS.**--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only the peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

**GAGE.**--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

**REMARKS.**--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, in addition, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

**COOPERATION.**--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

**EXTREMES FOR PERIOD OF RECORD.**--Extremes may include maximum and minimum stages and maximum and minimum discharges or contents. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum. Extremes for period of record is presented as a separate paragraph where outside summary statistical period.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by U.S. Geological Survey.

**PEAK DISCHARGES ABOVE BASE FOR CURRENT YEAR.**--For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. All peaks greater than the base discharge are listed with the maximum for the year footnoted by an asterisk (\*). Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man or at locations where the instantaneous peak discharge does not exceed the mean daily discharge by 10 percent. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330.

**REVISIONS.**--If a critical error in published records is discovered, a revision is included in the first report following discovery of the error.

Although rare, occasionally the records of a discontinued station gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the data from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published retrieval of data is always accompanied by revisions of the corresponding data in computer storage.

Manuscript information for lakes or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

#### Data table of daily mean values

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges respectively, for the month. Discharge for the month is often expressed in cubic feet per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by symbol and corresponding footnote.

**Statistics of monthly mean data**

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS \_\_\_\_ - \_\_\_\_ BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

**Summary statistics**

A table title "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS \_\_\_\_ - \_\_\_\_," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in the footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

**ANNUAL TOTAL.**--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

**ANNUAL MEAN.**--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes. At least 5 complete years of record must be available before this statistic is published for the designated period.

**HIGHEST ANNUAL MEAN.**--The maximum annual mean discharge occurring for the designated period.

**LOWEST ANNUAL MEAN.**--The minimum annual mean discharge occurring for the designated period.

**HIGHEST DAILY MEAN.**--The maximum daily mean discharge for the year or for the designated period.

**LOWEST DAILY MEAN.**--The minimum daily mean discharge for the year or for the designated period.

**ANNUAL 7-DAY MINIMUM.**--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

**INSTANTANEOUS PEAK FLOW.**--The maximum instantaneous stage occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

**INSTANTANEOUS LOW FLOW.**--The minimum instantaneous discharge occurring for the water year or for the design-named period.

**ANNUAL RUNOFF (AC-FT).**--Indicates the depth, in acre-feet, to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

**ANNUAL RUNOFF (CFSM).**--Indicates the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area for the year.

ANNUAL RUNOFF (INCHES).--indicates the depth to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that is exceeded by 10 percent of the flow for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded by 50 percent of the flow for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded by 90 percent of the flow for the designated period.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are usually presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second, when collected, is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in time of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

#### Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

#### Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) The stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredths of a cubic foot per second for values less than 1 ft<sup>3</sup>/s; to the nearest tenth between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to three significant figures for more than 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors. For such stations, figures of cubic feet per second per square mile and changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

#### Other Records Available

Records of discharge, ground-water, reservoir contents, and water-quality not published by the Geological Survey are collected in Ohio at several sites by State and other Federal agencies. The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in preparing the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Ohio District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on availability of the unpublished information or on results of statistical analyses of the published records may be obtained from the District office.

#### Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequency

### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recording; however, because of cost, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this volume are shown in figure 9.

### Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at a nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

### On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the sample to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations" (TWRI), Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed on p. 21-22 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream-Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors that must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for each day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey District Office, whose address is given on the back of the title page of this report.

### Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small daily temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharge for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge values differ from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

#### Laboratory Measurements

Sediment samples, samples for biochemical oxygen demand (BOD), and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratories in Arvada, CO. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989.

Historical and current (1992) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

#### Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily, are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the record.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums and minimums may not have been sampled. Extremes, when given, are for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

## Remark Codes

The following remarks codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptable range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organisms may be observed rather than counted)
M	Presence of material verified but not quantified
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Records of Ground-Water Levels

Water-level data from a network of observation wells (as well as project wells) are given in this report. The network well data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in this network in Ohio are shown in figure 9. Water-level data for specific projects are reported under those projects.

## Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is a 15-digit number that is based on latitude and longitude. The secondary identification number is the local well number, which is provided for local needs. Water-level measurements in this report are given in feet with reference to land-surface datum (LSD). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in each well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or larger units.

## Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

**LOCATION.**--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

**AQUIFER.**--This entry describes the aquifer by age and composition.

**WELL CHARACTERISTICS.**--This entry describes the well in terms of depth, diameter, casing depth and (or) screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

**DATUM.**--This entry describes both the measuring point and the land-surface altitude at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base, and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The altitude of the land-surface datum (LSD) is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

**REMARKS.**--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that are also water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

**PERIOD OF PUBLISHED RECORD.**--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water level records by the U.S. Geological Survey or cooperating agency, and the words "to current year" if the records are to be continued to the following year. Periods for which water-level records are available, but not published by the Survey, may be noted.

**EXTREMES FOR PERIOD OF PUBLISHED RECORD.**--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum (LSD), and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below (or above) land-surface datum. All periodic measurements of water levels for wells are listed. For wells equipped with recorders, daily water-level lows are published. The highest and lowest daily lows of the water year are shown on a line below the table. Because only daily lows are published for wells with recorders, the extreme instantaneous high may be a value that is not listed in the table. Missing records are indicated by dashes in place of the water level.

### Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements. The quality of ground water ordinarily changes slowly, so that frequent measuring of the same parameter is not necessary unless one is concerned with a particular problem such as monitoring for trends of a particular constituent

### Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the TWRI manuals listed on p. 21-22. The data presented in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and the material comprising the casings

### Data Presentation

The records of ground-water quality are published intermixed with the ground-water-level data for network wells and with the specific project for project wells.

### AACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

## ACCESS TO WATSTORE DATA--Continued

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey  
National Water Data Exchange  
421 USGS National Center  
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section. U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

## DEFINITION OF TERMS

Dissolved Diatoms Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot, and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield reasonable quantities of water to wells and springs.

Artesian means confined, and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 C. In the laboratory, these bacteria are defined as the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C + 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.0°C + 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35°C + 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m), and periphyton and benthic organisms in grams per square meter (g/m<sup>2</sup>).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism, which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic foot per second (cfs, ft<sup>3</sup>/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time

Dissolved: That material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

*Escherichia coli* (*E. coli*) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5°C on mTEC medium.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ( $\text{CaCO}_3$ ).

Hydrologic Bench-Mark Station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

Hydrologic Index Stations, in this report, refers to four continuous record gaging stations that have been selected as representative of stream-flow patterns for their respective regions of Ohio. Station locations are shown in figure 1.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G,  $\mu\text{g/g}$ ) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Microgram per kilogram (UG/KG,  $\mu\text{g/kg}$ ) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of bottom material.

Micrograms per liter (UG/L,  $\mu\text{g/L}$ ) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L,  $\text{mg/L}$ ) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in  $\text{mg/L}$ , and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream-Quality Accounting Network (NASQAN) is a data-collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meters (m<sup>2</sup>), acres, or hectares. Periphyton benthic organisms and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter code is a 5-digit number used in the U.S Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and (or) water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	0.004 - 0.062	Sedimentation.
Sand.....	0.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population in terms of types, number, mass, or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PCI, pCi) is one trillionth ( $1 \times 10^{-12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per millimeter (cells/mm) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movement within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [ $\text{mg C}/(\text{m}^2/\text{time})$ ] for periphyton and macrophytes and [ $\text{mg C}/(\text{m}^3/\text{time})$ ] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [ $\text{mg O}_2/(\text{m}^2/\text{time})$ ] for periphyto and macrophytes and [ $\text{mg O}_2/(\text{m}^3/\text{time})$ ] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drain-age basins in the conterminous United States.

Recoverable from bottom material--The amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment, thus, the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed-load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

7-day, 10-year low flow ( $7Q_{10}$ ) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium of alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water

Stage-discharge relation is the relation between gage height (stage) and volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrate are basket samplers (made of wire cages filled with clean streamsize rocks) and multiplate samplers made of hardboard) for benthic organism collection, and plexuses strips for periphyton.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is the part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom.....Animal  
 Phylum.....Arthropoda  
 Class.....Insecta  
 Order.....Ephemeroptera  
 Family.....Ephemeridae  
 Genus.....Hexagenia  
 Species.....Hexagenia limbata

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY) is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published after 1975.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

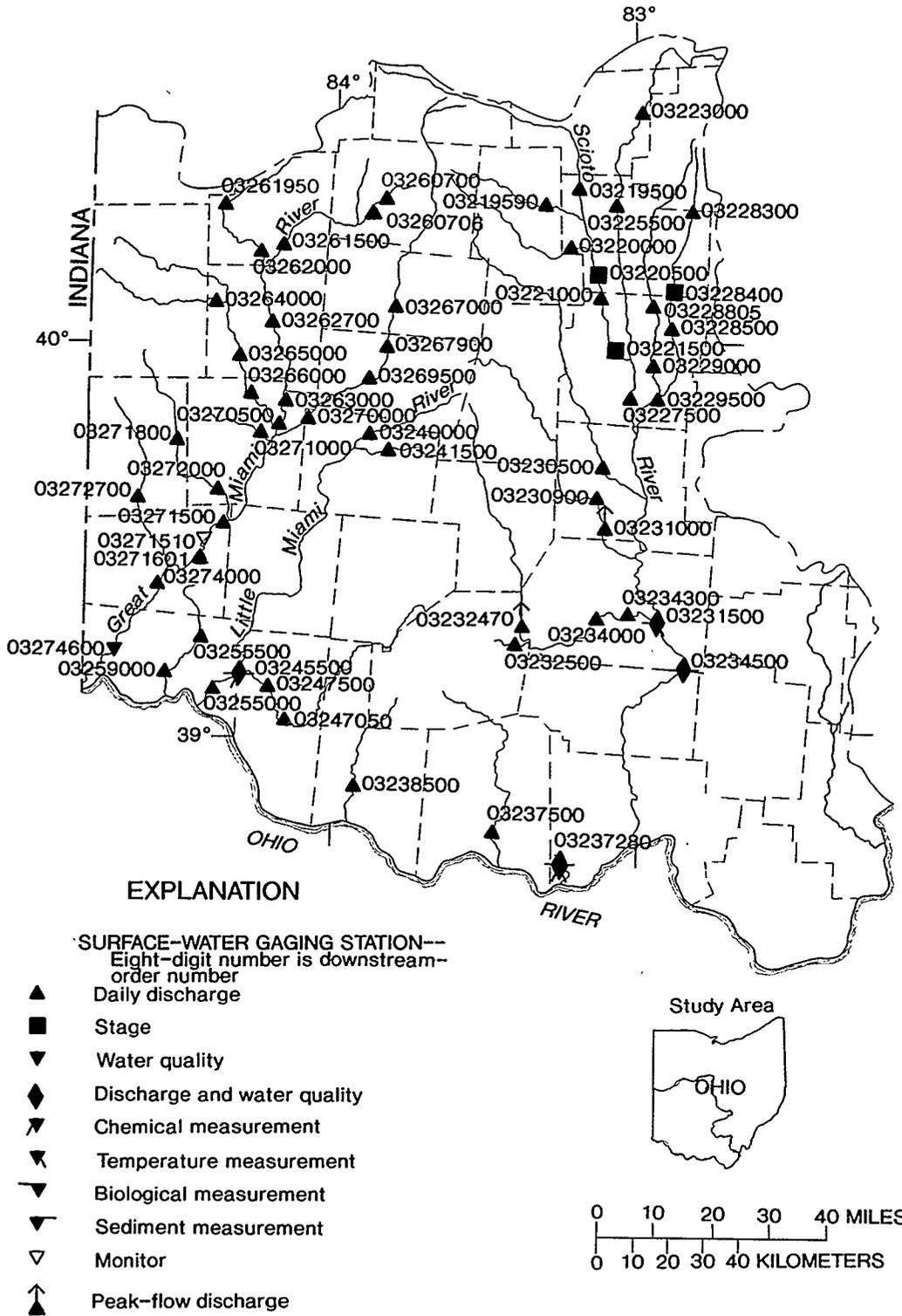


Figure 8a.--Location of data-collection stations.

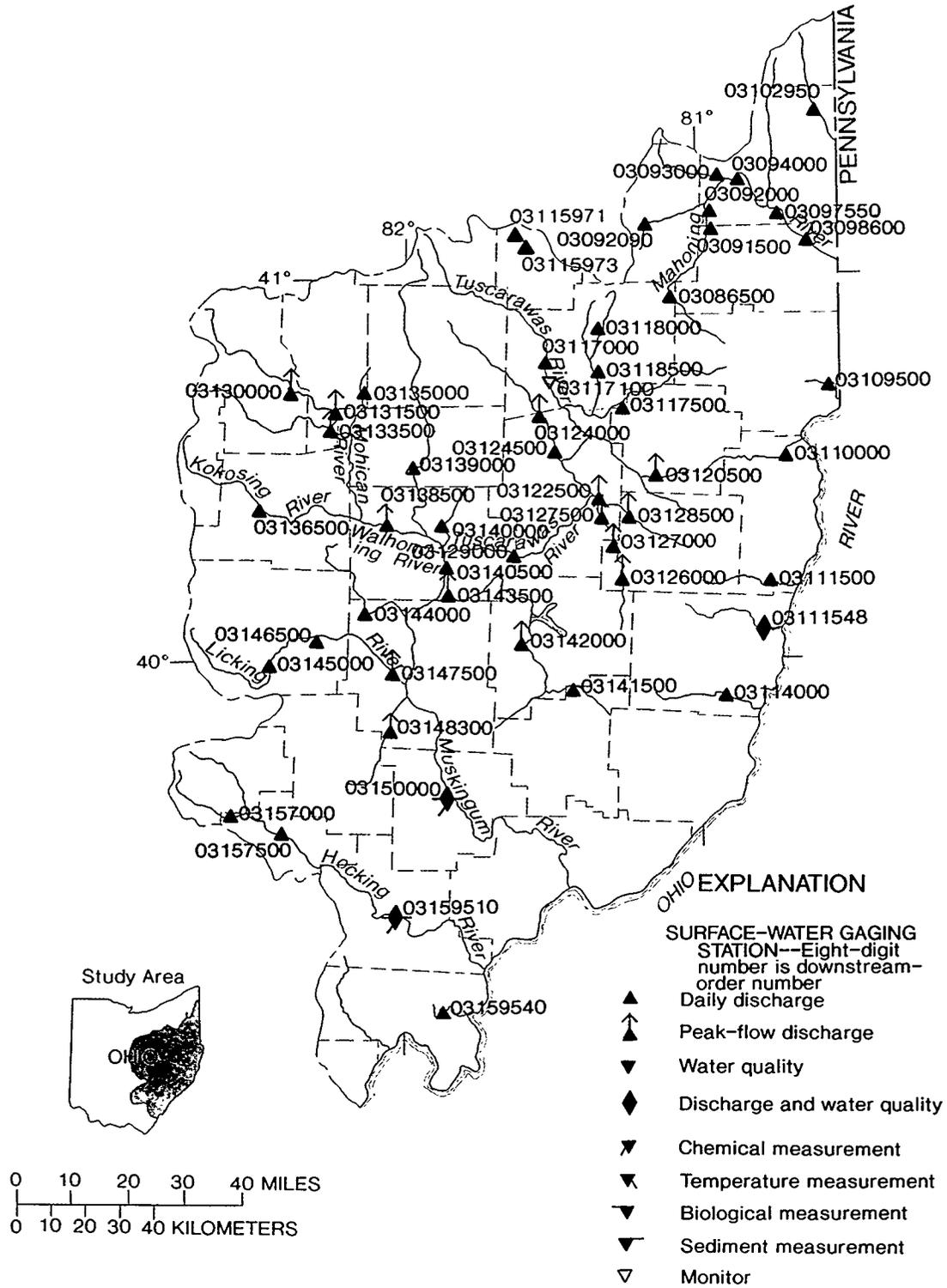
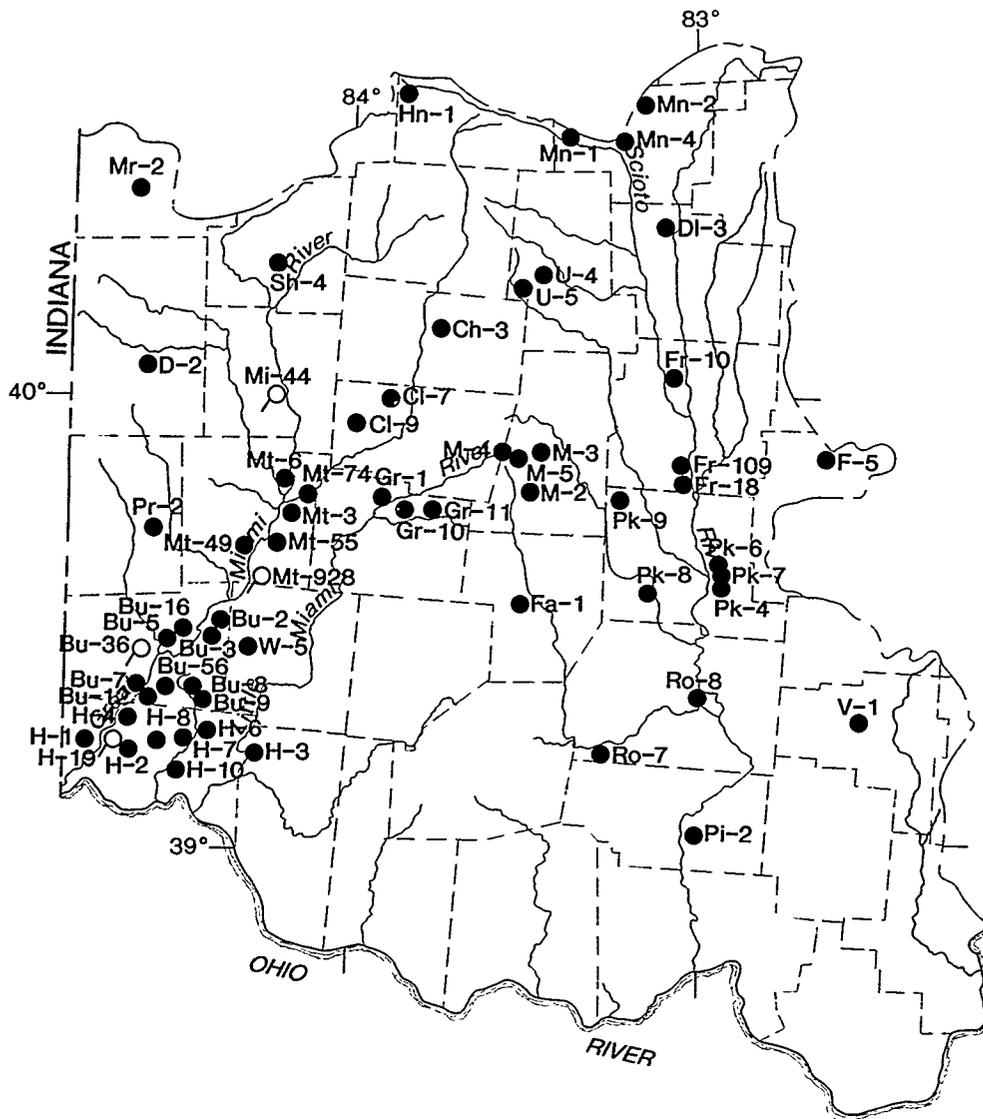


Figure 8b.--Location of data-collection stations.



**EXPLANATION**

- Fa -1 Observation well
  - Mi-44 Water supply well, chemical measurement
- WELL AND LOCAL NUMBER--Letter preceding hyphen is county code; number following hyphen is sequence number

**Study Area**

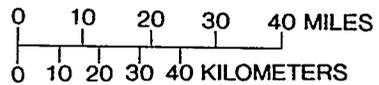


Figure 8c.--Location of wells.



## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficken, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
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## HYDROLOGIC-DATA STATION RECORDS

## OHIO RIVER BASIN

## BEAVER RIVER BASIN

## 03086500 MAHONING RIVER AT ALLIANCE, OH

LOCATION.--Lat 40°55'58", long 81°05'41", in SE 1/4 sec. 24, T.19 N., R.6 W., Stark County, Hydrologic Unit 05030103, on right bank 15 ft upstream from Webb Avenue Bridge in Alliance, 0.2 mi upstream from waterworks dam, and 4 mi upstream from Beech Creek.

DRAINAGE AREA.--89.2 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1941 to current year.

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 1,037.3 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 17-22. Records good except those for periods of estimated record which are fair. Flow slightly regulated by Westville Reservoir 9.3 mi upstream from station. Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	2.3	4.9	10	53	70	35	22	.00	918	28
2	.00	.00	6.9	3.9	7.1	41	68	36	18	4.9	228	22
3	.00	.00	131	4.9	6.8	27	59	81	16	5.9	91	52
4	.00	.00	45	10	7.2	18	49	42	13	5.4	196	85
5	.00	.00	16	10	5.8	15	38	38	13	5.7	126	57
6	.00	.00	11	9.6	4.7	19	29	38	13	5.5	65	40
7	.00	.00	6.7	9.6	5.5	81	25	29	12	5.6	43	33
8	.00	.00	7.2	8.5	4.7	92	23	24	10	6.7	89	29
9	.00	.00	6.1	8.9	2.5	70	19	30	9.9	7.1	745	30
10	.00	.00	3.7	10	4.3	52	18	29	9.9	13	594	218
11	.00	.00	2.8	9.9	1.9	60	19	25	7.5	13	145	103
12	.00	3.8	3.4	9.7	1.0	44	47	19	3.6	10	81	46
13	.00	3.5	15	9.6	1.1	33	32	18	.00	186	59	26
14	.00	4.9	38	19	8.1	25	21	17	.00	136	46	18
15	.00	3.1	23	16	16	23	17	16	.00	250	47	15
16	.00	3.6	8.9	11	94	18	19	13	.00	379	56	12
17	.00	5.8	6.3	8.2	64	20	215	13	.00	180	44	12
18	.00	4.4	4.2	7.2	43	24	350	23	.00	226	35	15
19	.00	3.6	3.9	6.6	65	156	570	18	.00	77	31	28
20	.00	2.1	2.3	6.0	86	179	267	15	.00	44	28	18
21	.00	6.7	3.5	5.4	60	93	132	14	.00	327	26	29
22	.00	4.2	4.2	5.0	41	116	107	12	.00	201	19	574
23	.00	2.7	5.7	25	37	222	76	12	.00	161	13	383
24	.00	2.5	5.9	84	33	163	99	15	.00	310	13	88
25	.00	2.5	6.2	42	30	112	96	15	8.5	138	13	44
26	.00	1.5	3.9	29	23	100	73	13	6.3	64	14	31
27	.00	1.1	3.3	21	20	154	57	11	.00	110	15	24
28	.00	1.9	1.8	13	22	182	42	10	.00	48	120	22
29	.00	2.5	5.9	7.7	79	98	31	9.0	.00	47	236	15
30	.00	3.5	6.8	7.1	---	78	31	19	.00	204	70	13
31	.00	---	5.7	8.8	---	86	---	27	---	1010	39	---
TOTAL	0.00	63.90	396.6	431.5	783.7	2454	2699	716.0	162.70	4180.80	4245	2110
MEAN	.000	2.13	12.8	13.9	27.0	79.2	90.0	23.1	5.42	135	137	70.3
MAX	.00	6.7	131	84	94	222	570	81	22	1010	918	574
MIN	.00	.00	1.8	3.9	1.0	15	17	9.0	.00	.00	13	12
CFSM	.09	.02	.14	.16	.30	.89	1.01	.26	.06	1.51	1.54	.79
IN.	.00	.03	.17	.18	.33	1.02	1.13	.30	.07	1.74	1.77	.88

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1941	32.1	182	1955	.000	1950
1942	57.0	376	1986	.52	1950
1943	104	377	1991	2.92	1944
1944	118	427	1952	13.9	1992
1945	167	379	1956	13.2	1964
1946	196	393	1964	46.4	1969
1947	149	392	1981	12.0	1946
1948	102	356	1946	15.6	1965
1949	62.7	402	1989	3.09	1949
1950	42.5	224	1958	.000	1954
1951	28.8	215	1958	.54	1949
1952	26.0	202	1975	.000	1946

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1941 - 1992
ANNUAL TOTAL	19457.50	18243.20	
ANNUAL MEAN	53.3	49.8	90.1
HIGHEST ANNUAL MEAN			158
LOWEST ANNUAL MEAN			37.7
HIGHEST DAILY MEAN	1160	Mar 7	4360
LOWEST DAILY MEAN	.00	Sep 25	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 25	.00
INSTANTANEOUS PEAK FLOW		1430	9740
INSTANTANEOUS PEAK STAGE		3.96	9.11
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (CFSM)	.60	.56	1.01
ANNUAL RUNOFF (INCHES)	8.11	7.61	13.72
10 PERCENT EXCEEDS	129	122	210
50 PERCENT EXCEEDS	8.5	15	32
90 PERCENT EXCEEDS	.00	.00	3.7

<sup>a</sup> Peaks above base in shown Table of discharges and stages at continuous-record surface-water-discharge stations.



## BEAVER RIVER BASIN

## 03092000 KALE CREEK NEAR PRICETOWN, OH

LOCATION.--Lat 41°08'23", long 80°59'43", in T.3 N., R.5 W., Trumbull County, Hydrologic Unit 05030103, on right bank at downstream side of private road bridge, 0.4 mi north of Mahoning-Trumbull County line, 1.5 mi northwest of Pricetown, 2.2 mi upstream from mouth, and 3.5 mi south of Newton Falls.

DRAINAGE AREA.--21.9 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1940 to current year. Prior to June 1941 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 973: 1942. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 914.70 ft above National Geodetic Vertical Datum of 1929. Prior to June 27, 1941, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 6-9, Oct. 15-Nov. 13, Jan. 17-22, 24-26, July 15-18, 24-25, 30-31. Records fair except those for periods of estimated discharge, which are poor. Water-quality data collected at this site 1965 to 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.19	.68	1.9	4.6	28	31	12	4.2	.92	83	6.6
2	.06	.18	1.1	1.8	4.4	16	33	9.9	2.7	.80	25	4.2
3	.07	.17	25	1.7	3.4	10	22	38	1.9	.81	11	19
4	.09	.17	14	1.7	2.8	7.1	15	18	1.4	.86	29	176
5	.10	.16	3.7	1.6	2.5	4.4	11	10	1.4	.84	36	34
6	.09	.16	2.2	1.5	2.1	5.0	7.9	9.5	1.5	.73	11	15
7	.08	.15	1.7	1.4	1.9	48	5.9	7.5	1.8	.64	6.1	8.7
8	.07	.15	1.5	1.3	1.8	76	4.7	5.4	1.5	.65	4.9	6.6
9	.07	.15	1.2	1.4	1.5	51	3.9	5.0	1.4	.62	96	9.9
10	.16	.20	.93	1.5	1.0	28	3.8	5.2	1.3	.76	23	170
11	.15	1.5	.83	1.4	.86	31	10	4.7	1.3	1.0	9.5	41
12	.14	8.0	.77	1.4	.89	23	39	3.5	1.3	1.8	7.7	14
13	.15	4.0	1.2	1.5	.67	19	22	2.7	1.1	56	4.3	7.5
14	.14	.48	3.2	2.6	.84	13	11	2.2	1.2	21	3.0	5.0
15	.13	.43	3.5	4.9	3.2	10	7.5	1.6	.99	70	4.1	3.8
16	.11	.88	2.6	3.9	43	9.2	6.3	1.2	.92	120	46	3.2
17	.10	2.1	1.9	2.0	33	7.4	44	.93	.80	45	19	3.0
18	.10	3.6	1.6	1.7	22	11	53	1.2	.92	110	8.7	3.6
19	.15	5.0	1.3	1.5	38	18	54	1.4	1.2	55	5.2	12
20	.25	7.1	.96	1.3	39	59	45	1.1	1.7	18	3.3	8.6
21	.20	11	1.1	1.2	24	35	29	.98	1.4	44	2.3	41
22	.22	2.3	1.3	1.1	14	29	25	.88	1.0	40	1.9	521
23	.19	1.3	1.6	3.8	13	38	15	.74	1.2	13	1.7	70
24	.25	.93	2.7	25	10	44	29	.91	1.5	60	1.8	22
25	.32	.64	2.5	40	8.1	64	53	1.2	2.0	80	2.1	9.7
26	.26	.52	2.1	9.0	7.3	57	32	1.2	2.0	32	2.0	5.5
27	.24	.40	1.7	6.2	7.4	71	25	1.2	1.9	37	4.5	4.7
28	.23	.41	1.4	4.2	5.3	71	14	1.1	1.4	14	175	3.5
29	.22	.50	1.7	3.7	49	31	9.3	.95	1.1	7.5	118	2.4
30	.21	.67	2.1	4.1	---	27	8.7	2.1	.93	100	24	2.0
31	.20	---	2.1	4.1	---	51	---	4.9	---	810	11	---
TOTAL	4.81	53.44	90.17	140.4	345.56	992.1	670.0	157.19	44.96	1742.93	780.1	1233.5
MEAN	.16	1.78	2.91	4.53	11.9	32.0	22.3	5.07	1.50	56.2	25.2	41.1
MAX	.32	11	25	40	49	76	54	38	4.2	810	175	521
MIN	.06	.15	.68	1.1	.67	4.4	3.8	.74	.80	.62	1.7	2.0
CFSM	.01	.08	.13	.21	.54	1.46	1.02	.23	.07	2.57	1.15	1.88
IN.	.01	.09	.15	.24	.59	1.69	1.14	.27	.08	2.96	1.33	2.10

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)

MEAN	6.45	15.2	30.7	32.5	44.6	53.5	36.3	26.1	12.6	10.9	5.11	6.55
MAX	47.8	93.8	115	117	124	126	91.9	69.8	95.0	87.5	37.8	75.9
(WY)	1955	1986	1978	1952	1976	1964	1972	1974	1989	1976	1990	1975
MIN	.090	.31	.44	1.12	3.35	7.95	2.74	1.60	.31	.039	.060	.003
(WY)	1967	1954	1961	1961	1963	1990	1946	1941	1988	1966	1991	1966

## SUMMARY STATISTICS

## FOR 1991 CALENDAR YEAR

## FOR 1992 WATER YEAR

## WATER YEARS 1941 - 1992

ANNUAL TOTAL	4360.15	6255.16	
ANNUAL MEAN	11.9	17.1	23.3
HIGHEST ANNUAL MEAN			43.1
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	312	Mar 7	1800
LOWEST DAILY MEAN	.04	Aug 29	.00
ANNUAL SEVEN-DAY MINIMUM	.04	Aug 27	.00
INSTANTANEOUS PEAK FLOW			1000
INSTANTANEOUS PEAK STAGE			5.98
INSTANTANEOUS LOW FLOW			.06
ANNUAL RUNOFF (CFSM)	.55	.78	1.06
ANNUAL RUNOFF (INCHES)	7.41	10.63	14.46
10 PERCENT EXCEEDS	26	43	49
50 PERCENT EXCEEDS	1.2	3.2	3.7
90 PERCENT EXCEEDS	.06	.24	.23

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

03092090 WEST BRANCH MAHONING RIVER NEAR RAVENNA, OH

LOCATION.--Lat 41°09'41", long 81°11'50", in T.3 N., R.8 W., Portage County, Hydrologic Unit 05030103, on left bank at downstream side of bridge on Newton Falls Road, 2.5 mi east of Ravenna.

DRAINAGE AREA.--21.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,011.8 ft above National Geodetic Vertical Datum of 1929 (Portage County bench mark).

REMARKS.--Estimated daily discharges: Jan. 17-22, Feb. 8-13. Records fair except those for periods of estimated records, which are poor. Water-quality data collected at this site 1966 to 1978. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	5.2	1.5	4.0	7.0	28	32	18	12	1.6	82	15
2	1.4	4.7	4.1	3.6	5.3	23	30	17	7.2	1.5	34	12
3	2.3	3.7	29	3.5	3.9	18	25	20	4.7	8.2	22	23
4	3.8	3.1	13	3.8	3.8	14	22	15	4.1	3.9	21	44
5	7.6	2.5	6.2	3.6	3.5	12	18	13	4.4	3.5	21	24
6	14	2.7	4.1	3.3	3.3	22	15	12	3.7	2.5	15	17
7	13	2.3	3.5	3.0	2.9	81	14	10	3.9	1.8	13	14
8	12	2.5	3.2	3.2	2.0	62	13	8.9	4.5	1.3	13	25
9	12	2.2	3.1	3.2	1.4	34	12	12	2.2	1.3	14	46
10	14	2.1	2.2	4.0	1.2	34	12	11	2.9	6.4	11	230
11	8.1	4.2	1.6	4.7	1.0	39	15	9.0	3.3	8.1	21	49
12	6.1	3.9	1.3	4.9	.96	30	19	8.1	2.5	21	16	21
13	6.8	4.1	3.4	3.7	.92	25	15	5.9	2.0	141	11	15
14	6.6	3.0	4.0	15	1.3	20	12	5.1	1.6	27	11	11
15	5.7	2.7	3.2	12	17	19	10	4.6	1.3	266	46	8.8
16	5.9	2.9	2.5	8.3	71	16	12	4.1	1.3	88	157	7.1
17	8.1	2.7	2.7	5.4	39	18	111	4.1	1.4	61	41	6.2
18	7.1	2.2	3.1	4.7	34	22	239	8.3	4.1	98	22	9.0
19	7.4	1.7	2.6	3.6	62	31	135	6.7	6.2	28	17	19
20	9.4	1.7	2.5	3.0	45	44	49	5.0	5.9	19	14	13
21	10	2.9	3.3	2.5	28	45	48	4.3	4.7	22	11	225
22	9.2	2.0	3.7	2.3	24	35	76	4.6	3.7	15	8.7	439
23	8.3	1.5	6.9	24	24	30	36	3.4	3.1	14	10	72
24	7.3	1.4	9.0	47	20	32	33	5.9	7.2	194	11	20
25	6.1	1.1	6.3	24	16	60	35	6.7	5.0	96	14	10
26	7.4	.84	4.2	16	14	152	28	4.5	2.8	124	17	6.6
27	7.0	1.2	3.7	11	13	162	22	3.7	5.2	117	21	5.8
28	7.0	1.3	3.1	8.8	19	89	18	3.0	4.2	32	106	4.4
29	6.2	1.7	4.4	7.9	54	39	14	2.5	2.9	46	57	3.1
30	6.2	1.6	5.6	6.4	---	40	18	8.8	2.0	467	24	2.5
31	5.6	---	4.9	7.2	---	40	---	20	---	626	22	---
TOTAL	233.1	75.64	151.9	257.6	518.48	1316	1138	265.2	120.0	2542.1	903.7	1397.5
MEAN	7.52	2.52	4.90	8.31	17.9	42.5	37.9	8.55	4.00	82.0	29.2	46.6
MAX	14	5.2	29	47	71	162	239	20	12	626	157	439
MIN	1.4	.84	1.3	2.3	.92	12	10	2.5	1.3	1.3	8.7	2.5
CFSM	.34	.12	.22	.38	.82	1.95	1.74	.39	.18	3.76	1.34	2.14
IN.	.40	.13	.26	.44	.88	2.25	1.94	.45	.20	4.34	1.54	2.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992		
MEAN	11.2	27.7	44.6	32.0	48.5	53.8	40.2	28.7	16.2	13.4	7.67	13.6																	
MAX	68.2	108	113	82.5	117	90.5	81.7	78.5	85.2	82.0	29.2	69.4																	
(WY)	1991	1986	1991	1975	1981	1984	1972	1984	1989	1992	1992	1979																	
MIN	1.96	2.52	4.90	4.67	15.9	14.6	13.1	7.85	1.69	1.40	.91	1.37																	
(WY)	1967	1992	1992	1977	1987	1990	1971	1977	1988	1966	1982	1966																	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1966 - 1992
ANNUAL TOTAL	5958.33	8919.22	
ANNUAL MEAN	16.3	24.4	28.0
HIGHEST ANNUAL MEAN			44.4
LOWEST ANNUAL MEAN			16.8
HIGHEST DAILY MEAN	253	Feb 20	1590
LOWEST DAILY MEAN	.80	Aug 7	.02
ANNUAL SEVEN-DAY MINIMUM	.96	Aug 2	.13
INSTANTANEOUS PEAK FLOW		1450	2810
INSTANTANEOUS PEAK STAGE		7.00	8.63
INSTANTANEOUS LOW FLOW		.84	.02
ANNUAL RUNOFF (CFSM)	.75	1.12	1.28
ANNUAL RUNOFF (INCHES)	10.17	15.22	17.46
10 PERCENT EXCEEDS	37	46	61
50 PERCENT EXCEEDS	5.7	8.5	11
90 PERCENT EXCEEDS	1.4	2.2	2.3

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

03093000 EAGLE CREEK AT PHALANX STATION, OH

LOCATION.--Lat 41°15'40", long 80°57'16", Trumbull County, Hydrologic Unit 05030103, on right bank 75 ft downstream from county road bridge, 1 mi north of Phalanx Station, 2 mi downstream from Tinkers Creek, and 4 mi upstream from mouth.

DRAINAGE AREA.--97.6 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1926 to September 1934, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 953: 1938-41. WSP 1385: 1927-30, 1931-32(M), 1934, 1938-41(P). WSP 1555: 1928(M), 1929. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 887.14 ft above National Geodetic Vertical Datum of 1929, (levels by Mahoning Valley Sanitary District). Prior to Sept. 14, 1929, nonrecording gage at same site and datum. Sept. 14, 1929 to Sept. 30, 1977 at same site and datum 0.28 ft higher.

REMARKS.--Estimated daily discharges: Jan. 17-22, Feb. 8-12. Records good except estimated records which are fair. Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	18	30	61	149	150	86	71	25	1120	54
2	13	16	18	27	52	114	139	77	50	24	160	41
3	10	15	113	26	50	89	117	108	41	40	92	52
4	11	15	112	27	49	74	106	95	37	56	106	176
5	22	16	51	27	46	66	92	80	37	33	120	93
6	18	16	37	26	40	65	80	75	36	29	73	61
7	15	16	33	24	44	209	74	67	35	27	52	50
8	14	17	33	23	37	317	69	61	35	25	46	51
9	14	17	32	24	27	187	64	60	33	26	45	79
10	14	16	29	28	23	133	62	62	31	26	41	361
11	26	20	26	30	21	162	79	57	29	29	244	336
12	22	26	24	28	20	128	159	52	27	29	285	102
13	20	28	26	27	34	109	117	49	27	144	89	67
14	20	25	32	41	34	91	84	46	27	104	84	53
15	17	23	31	74	45	83	73	43	27	166	63	47
16	16	25	27	53	281	72	68	40	26	400	300	43
17	15	28	25	39	281	74	275	40	26	139	281	39
18	14	22	24	32	168	86	734	54	26	261	96	37
19	16	19	24	27	254	99	1080	55	30	136	72	62
20	14	19	24	24	302	165	377	45	30	79	61	53
21	14	21	25	21	166	183	188	40	28	74	48	90
22	14	22	27	20	116	141	199	37	27	75	41	1090
23	14	20	29	40	116	116	148	35	27	59	36	671
24	14	19	37	208	95	114	119	41	30	106	34	131
25	14	18	38	201	81	211	153	50	33	689	32	86
26	15	17	32	116	73	397	128	42	30	463	31	66
27	16	16	27	84	65	667	112	40	28	523	31	56
28	19	17	27	69	62	760	92	36	26	187	79	52
29	15	20	27	61	207	276	79	34	25	127	139	46
30	15	20	32	57	---	171	77	40	25	805	76	42
31	16	---	34	58	---	192	---	84	---	2270	70	---
TOTAL	489	585	1074	1572	2850	5700	5294	1731	960	7176	4047	4187
MEAN	15.8	19.5	34.6	50.7	98.3	184	176	55.8	32.0	231	131	140
MAX	26	28	113	208	302	760	1080	108	71	2270	1120	1090
MIN	10	15	18	20	20	65	62	34	25	24	31	37
CFSM	.16	.20	.35	.52	1.01	1.88	1.81	.57	.33	2.37	1.34	1.43
IN.	.19	.22	.41	.60	1.09	2.17	2.02	.66	.37	2.74	1.54	1.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1992, BY WATER YEAR (WY)

MEAN	45.8	80.9	138	153	204	237	193	120	68.8	50.2	30.7	41.5
MAX	338	458	511	547	469	436	550	359	330	232	172	409
(WY)	1927	1986	1991	1952	1981	1963	1957	1984	1989	1958	1956	1926
MIN	8.31	12.3	18.5	26.3	10.3	68.6	37.1	10.6	10.5	8.09	7.16	7.14
(WY)	1964	1954	1964	1961	1934	1931	1946	1934	1933	1934	1962	1964

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1926 - 1992
ANNUAL TOTAL	30667.8	35665	
ANNUAL MEAN	84.0	97.4	113
HIGHEST ANNUAL MEAN			170
LOWEST ANNUAL MEAN			34.3
HIGHEST DAILY MEAN	1390	Mar 7	5500
LOWEST DAILY MEAN	9.6	Sep 3	10
ANNUAL SEVEN-DAY MINIMUM	9.8	Aug 28	14
INSTANTANEOUS PEAK FLOW			3240
INSTANTANEOUS PEAK STAGE			12.14
INSTANTANEOUS LOW FLOW			10
ANNUAL RUNOFF (CFSM)	.86	1.00	1.15
ANNUAL RUNOFF (INCHES)	11.69	13.59	15.68
10 PERCENT EXCEEDS	180	189	261
50 PERCENT EXCEEDS	27	45	44
90 PERCENT EXCEEDS	12	17	13

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

03094000 MAHONING RIVER AT LEAVITTSBURG, OH

LOCATION.--Lat 41°14'21", long 80°52'51", in T.4 N., R.4 W., Trumbull County, Hydrologic Unit 05030103, on right bank at upstream side of Leavitt Road Bridge at Leavittsburg, 300 ft downstream from Duck Creek and 1.2 mi downstream from Eagle Creek.

DRAINAGE AREA.--575 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1940 to current year. Prior to June 1941 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 871.25 ft above National Geodetic Vertical Datum of 1929. Prior to July 2, 1941, nonrecording gage, and July 2, 1941, to July 22, 1952, water-stage recorder, at site 50 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Berlin Lake, 25 mi upstream, beginning in 1942, by Milton Reservoir, 17 mi upstream, and by Michael J. Kirwan Reservoir, 20 mi upstream on West Branch, beginning in 1966. Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality data collected at this site 1943 to 1971. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 19.37 ft; minimum daily, 60 ft<sup>3</sup>/s July 6, 1952.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913 reached a stage of about 24 ft. Flood of Jan. 25 or 26, 1937 reached a stage of 17.8 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	175	126	141	168	437	384	264	356	277	3640	408
2	204	171	130	140	158	286	327	264	286	283	1110	447
3	201	162	296	138	153	230	270	325	270	299	937	669
4	202	158	309	138	149	188	226	272	290	337	1120	1080
5	206	129	194	138	144	164	190	194	292	319	1420	906
6	212	173	157	137	136	170	162	173	287	306	1400	716
7	206	165	146	135	149	439	180	203	282	300	1310	667
8	187	138	152	154	147	706	181	244	286	297	1140	668
9	170	136	166	157	135	546	172	248	290	298	1240	730
10	187	136	157	145	133	347	169	248	287	304	1230	1590
11	184	142	142	144	143	336	197	236	295	283	1570	1560
12	190	145	136	144	131	296	322	258	304	279	1850	1050
13	180	151	145	142	138	244	329	251	304	519	1540	894
14	176	146	157	170	137	205	200	238	302	373	1460	845
15	172	144	148	197	166	176	162	237	307	501	1360	813
16	162	144	143	168	364	150	149	268	299	1600	1610	841
17	159	145	139	153	512	151	568	287	297	543	1780	836
18	160	140	137	153	361	182	1750	297	302	747	1090	837
19	162	117	129	144	452	246	2250	291	301	543	693	873
20	161	115	131	147	573	417	1160	265	308	244	379	881
21	159	128	144	144	366	434	518	255	303	191	270	950
22	159	125	140	145	245	356	424	256	300	216	212	2960
23	161	121	145	180	223	305	351	259	300	159	217	2690
24	163	117	149	320	200	326	317	271	314	242	255	1340
25	163	116	154	386	172	570	475	281	312	984	248	1800
26	168	121	145	264	170	776	380	279	306	950	244	1710
27	172	122	141	209	159	1160	302	271	298	977	249	1660
28	172	124	136	182	163	1340	237	262	293	524	453	1640
29	173	125	145	169	400	763	190	260	289	414	821	1530
30	169	129	147	162	---	414	181	305	284	1110	465	1000
31	173	---	145	166	---	493	---	344	---	4530	368	---
TOTAL	5517	4160	4831	5312	6547	12853	12723	8106	8944	18949	31681	34591
MEAN	178	139	156	171	226	415	424	261	298	611	1022	1153
MAX	212	175	309	386	573	1340	2250	344	356	4530	3640	2960
MIN	159	115	126	135	131	150	149	173	270	159	212	408

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992			
MEAN	462	593	872	700	817	928	831	647	517	425	389	523																	
MAX	1575	2077	2010	2105	2262	1579	1648	1572	2116	1047	1022	1705																	
(WY)	1991	1986	1978	1991	1990	1974	1972	1984	1989	1990	1992	1975																	
MIN	145	139	156	171	226	212	243	261	253	237	236	227																	
(WY)	1967	1992	1992	1992	1992	1969	1986	1992	1988	1988	1967	1967																	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1967 - 1992	
ANNUAL TOTAL	195286		154214			
ANNUAL MEAN	535		421		641	
HIGHEST ANNUAL MEAN					981	
LOWEST ANNUAL MEAN					367	
HIGHEST DAILY MEAN	5000	Jan 1	4530	Jul 31	8480	Sep 15 1979
LOWEST DAILY MEAN	115	Nov 20	115	Nov 20	106	Oct 30 1966
ANNUAL SEVEN-DAY MINIMUM	120	Nov 19	120	Nov 19	116	Oct 26 1966
INSTANTANEOUS PEAK FLOW			5610		9300	
INSTANTANEOUS PEAK STAGE			12.08		15.91	
10 PERCENT EXCEEDS	1610		1060		1490	
50 PERCENT EXCEEDS	270		248		370	
90 PERCENT EXCEEDS	145		140		209	

BEAVER RIVER BASIN

03097550 MAHONING RIVER AT OHIO EDISON POWER PLANT AT NILES, OH

LOCATION.--Lat 41°10'21", long 80°45'26", Trumbull County, Hydrologic Unit 05030103, on right bank 20 ft downstream from Conrail Spur Line, 100 ft downstream from Meander Creek, 0.2 mi upstream from Belmont Road, 0.4 mi downstream from Mosquito Creek in Niles.

DRAINAGE AREA.--854 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 843.08 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: July 16-28. Records good except estimated record, which is fair. Water diverted upstream from station for municipal supply for cities of Niles, Warren, and Youngstown. Some sewage returned to river upstream from station. Water also diverted upstream and downstream from station for industrial use, some of which is returned to river upstream from station. Flow regulated by Berlin Lake, 37 mi upstream, beginning in 1942, by Milton Reservoir, 29 mi upstream, by Michael J. Kirwan Reservoir, 32 mi upstream on West Branch, beginning in 1966 by Mosquito Creek Lake, 11 mi upstream, beginning in 1943, by Meander Creek Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	209	212	258	240	650	753	323	344	364	5020	443
2	316	212	219	253	230	429	585	390	279	359	1810	452
3	317	202	705	257	218	338	486	502	232	384	1000	728
4	333	204	493	246	214	274	405	441	246	412	1170	1190
5	330	200	314	241	204	246	336	315	261	426	1440	1130
6	326	201	214	244	191	278	296	284	249	390	1370	821
7	329	234	193	243	200	627	272	264	243	379	1270	726
8	339	235	206	209	202	993	277	282	234	383	1190	713
9	328	204	256	234	183	872	265	300	241	383	1290	747
10	358	199	283	237	189	599	278	288	251	412	1230	1560
11	261	230	254	226	204	493	330	271	266	373	1430	1790
12	248	228	221	222	208	466	471	269	282	350	1780	1190
13	234	247	266	214	215	389	577	281	274	799	1560	933
14	234	239	306	287	227	332	402	258	282	580	1420	855
15	231	216	266	290	292	282	294	249	277	902	1360	824
16	224	225	251	272	519	250	267	266	272	1780	1480	833
17	208	198	247	236	681	246	968	295	279	1300	1780	842
18	217	196	244	210	599	268	2430	314	297	1100	1240	886
19	214	194	241	208	621	387	3030	301	299	1000	812	930
20	211	190	237	203	785	613	1970	280	317	700	504	925
21	207	234	241	201	617	653	901	254	326	520	350	1250
22	217	227	238	203	411	567	629	250	310	490	284	3790
23	236	208	249	301	341	478	509	249	314	490	267	4140
24	234	199	259	579	311	492	510	289	355	600	313	1900
25	226	189	256	537	269	768	727	264	323	1000	383	1850
26	215	188	251	419	238	1060	623	269	319	1200	390	1780
27	222	201	249	313	224	1580	465	248	344	1300	376	1700
28	228	205	245	266	257	1920	357	236	355	1000	782	1660
29	238	213	266	239	566	1380	282	224	357	726	1100	1610
30	238	218	269	229	---	865	270	290	362	1660	687	1130
31	223	---	267	236	---	892	---	344	---	4790	466	---
TOTAL	8056	6345	8418	8313	9656	19687	19965	9090	8790	26552	35554	39328
MEAN	260	211	272	268	333	635	665	293	293	857	1147	1311
MAX	358	247	705	579	785	1920	3030	502	362	4790	5020	4140
MIN	207	188	193	201	183	246	265	224	232	350	267	443

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	785	609	891	1067	1349
MAX	2074	959	2428	2676	2853
(WY)	1991	1990	1991	1991	1990
MIN	247	211	272	268	333
(WY)	1989	1992	1992	1992	1990

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1988 - 1992	
ANNUAL TOTAL	276864		199754			
ANNUAL MEAN	759		546		850	
HIGHEST ANNUAL MEAN					1156	
LOWEST ANNUAL MEAN					546	
HIGHEST DAILY MEAN	5700	Jan 1	5020	Aug 1	8480	Dec 31 1990
LOWEST DAILY MEAN	188	Nov 26	183	Feb 9	183	Feb 9 1992
ANNUAL SEVEN-DAY MINIMUM	200	Nov 23	196	Feb 5	196	Feb 5 1992
INSTANTANEOUS PEAK FLOW			5540	Aug 1	8780	Dec 31 1990
INSTANTANEOUS PEAK STAGE			8.46	Aug 1	12.23	Dec 31 1990
INSTANTANEOUS LOW FLOW			183	Feb 9	183	Feb 9 1992
10 PERCENT EXCEEDS	2210		1230		2050	
50 PERCENT EXCEEDS	424		301		494	
90 PERCENT EXCEEDS	224		212		265	

03098600 MAHONING RIVER BELOW WEST AVENUE AT YOUNGSTOWN, OH

LOCATION.--Lat 41°06'18", long 80°39'46", Mahoning County, Hydrologic Unit 05030103, on left bank 200 ft below West Avenue Bridge, 0.4 mi upstream from Spring Common Bridge, 0.6 mi downstream from Mill Creek, in Youngstown.

DRAINAGE AREA.--978 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 824.10 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 17-27, Feb. 10-20, June 18-25. Records good, except for estimated record, which is fair. Water diverted upstream from station for municipal supply for city of Youngstown. Some sewage returned to river upstream from station. Water also diverted upstream and downstream from station by a private company for industrial use, some of which is returned to river upstream from station. Flow regulated by Berlin Lake, 49 mi upstream, beginning in 1942, by Milton Reservoir, 41 mi upstream, by Michael J. Kirwan Reservoir, 44 mi upstream on West Branch, beginning in 1966 by Mosquito Creek Lake, 23 mi upstream, beginning in 1943, by Meander Creek Reservoir, 12 mi upstream, beginning in 1929, and by reservoir on Squaw Creek, 6 mi upstream, and 2 small reservoirs on Mill Creek 0.6 mi upstream. U. S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	222	217	259	379	740	889	491	514	488	6660	612
2	290	221	200	251	360	549	703	559	468	487	2520	549
3	284	205	713	252	341	438	592	701	388	507	1210	951
4	297	203	857	245	334	360	511	642	383	528	1340	1340
5	292	203	579	227	322	315	439	547	401	550	1560	1270
6	276	205	276	219	305	341	378	477	401	535	1500	906
7	275	245	232	220	310	656	348	436	388	509	1350	802
8	282	248	220	220	322	1060	352	420	384	509	1330	824
9	271	206	269	247	298	970	339	436	391	518	1380	894
10	329	204	301	260	300	741	338	435	406	577	1310	1750
11	323	267	278	251	320	642	412	425	417	568	1410	2070
12	304	283	239	244	320	602	572	409	439	529	1700	1410
13	299	283	289	242	330	500	640	415	440	1220	1570	1140
14	278	260	403	349	360	464	495	399	441	928	1420	1000
15	271	226	329	349	400	402	365	370	440	1630	1380	909
16	251	244	284	262	560	343	342	363	437	2290	1470	908
17	221	205	269	250	720	323	1280	390	436	1440	1720	912
18	218	200	281	230	660	344	3180	442	450	1210	1310	937
19	227	199	239	220	680	476	3800	433	450	1150	902	1020
20	209	199	238	220	820	728	2400	409	470	716	620	975
21	203	250	258	220	715	790	1170	376	490	554	443	1350
22	211	256	250	220	516	698	895	360	470	509	348	4990
23	248	221	283	330	434	620	770	365	470	512	305	5160
24	271	208	291	600	402	657	788	407	520	721	354	2320
25	257	199	278	580	363	878	971	413	440	1210	451	1940
26	244	202	259	480	327	1140	885	399	444	1490	466	1880
27	243	199	249	430	304	1790	716	394	459	1540	461	1730
28	242	199	242	406	340	2170	600	374	474	1070	1210	1660
29	249	200	276	370	687	1560	500	358	475	730	1410	1630
30	260	206	285	351	---	1030	467	396	483	1840	991	1240
31	251	---	277	361	---	1010	---	491	---	7810	696	---
TOTAL	8172	6668	9661	9365	12529	23337	26137	13532	13269	34875	40797	45079
MEAN	264	222	312	302	432	753	871	437	442	1125	1316	1503
MAX	329	283	857	600	820	2170	3800	701	520	7810	6660	5160
MIN	203	199	200	219	298	315	338	358	383	487	305	549

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	856	673	1053	1209	1569	892	906	879	1167	1020	755	950
MEAN	856	673	1053	1209	1569	892	906	879	1167	1020	755	950
MAX	2303	1020	2967	3065	3323	1597	1299	2141	3693	1932	1316	1881
(WY)	1991	1991	1991	1991	1990	1991	1989	1989	1989	1990	1992	1990
MIN	264	222	312	302	432	596	686	437	377	430	419	346
(WY)	1992	1992	1992	1992	1992	1990	1988	1992	1988	1988	1991	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1988 - 1992
ANNUAL TOTAL	314544	243421	
ANNUAL MEAN	862	665	991
HIGHEST ANNUAL MEAN			1326
LOWEST ANNUAL MEAN			643
HIGHEST DAILY MEAN	7310	7810	10400
LOWEST DAILY MEAN	199	199	181
ANNUAL SEVEN-DAY MINIMUM	202	202	202
INSTANTANEOUS PEAK FLOW		9760	10500
INSTANTANEOUS PEAK STAGE		12.70	13.67
INSTANTANEOUS LOW FLOW		199	181
10 PERCENT EXCEEDS	2480	1380	2290
50 PERCENT EXCEEDS	428	431	580
90 PERCENT EXCEEDS	243	227	323

## BEAVER RIVER BASIN

## 03098600 MAHONING RIVER BELOW WEST AVENUE AT YOUNGSTOWN, OH--Continued

## WATER QUALITY RECORDS

LOCATION.--Lat 41°06'18", long 80°39'46", Mahoning County, Hydrologic Unit 05030103, on left bank 200 ft below West Avenue Bridge, 0.4 mi upstream from Spring Common Bridge, 0.6 mi downstream from Mill Creek, in Youngstown.

DRAINAGE AREA.--978 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1992 to current year.

## PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: July 1992 to current year.

pH: July 1992 to current year.

WATER TEMPERATURES: June 1992 to current year.

DISSOLVED OXYGEN: July 1992 to current year.

INSTRUMENTATION: Data Collection Platform. Set for one-hour-interval.

REMARKS.--Interruptions in the water-quality were due to malfunction of the instrument.

## EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 626 microsiemens Aug. 24-25, 1992; minimum, 189 microsiemens Aug. 1, 1992.

pH: Maximum, 8.4 units Aug. 22-23, 1992; minimum, 7.1 units Aug. 1-2, 1992.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 25-27; minimum, 16.5°C Sept. 24-25, 1992.

DISSOLVED OXYGEN: Maximum, 8.2 mg/L Sept. 24-25; minimum, 6.1 mg/L Aug. 25-27, 1992.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 626 microsiemens Aug. 24-25; minimum, 189 microsiemens Aug. 1.

pH: Maximum, 8.4 units Aug. 22-23; minimum, 7.1 units Aug. 1-2.

WATER TEMPERATURES: Maximum, 27.5°C Aug 25-27; minimum, 16.5°C Sept. 24-25.

DISSOLVED OXYGEN: Maximum, 8.2 mg/L Sept 24-25; minimum, 6.1 mg/L Aug. 25-27.





03102950 PYMATUNING CREEK AT KINSMAN, OH

LOCATION.--Lat 41°26'34", long 80°35'18", in T.7 N., R.1 W., Trumbull County, Hydrologic Unit 05030102, on left bank at downstream side of bridge on State Highway 7 at Kinsman, 0.8 mi downstream from Sugar Creek, and 1.2 mi upstream from Stratton Creek.

DRAINAGE AREA.--96.7 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 906.8 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: June 29 to July 3, July 8-10. Records fair. Water-quality data collected at this site 1966 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	15	33	79	169	363	106	23	3.8	310	313
2	13	16	15	26	72	150	288	107	24	3.2	173	206
3	12	15	29	24	56	120	231	175	20	4.5	86	135
4	15	13	51	25	46	94	200	178	16	5.8	100	131
5	17	13	41	26	39	74	173	125	14	6.1	117	106
6	14	13	29	25	39	66	139	108	14	9.4	65	76
7	10	14	24	23	32	149	111	88	13	6.3	40	54
8	5.9	15	24	19	30	252	89	69	14	6.0	78	49
9	5.4	15	26	19	30	283	71	57	15	5.8	372	48
10	8.0	15	26	21	23	256	62	51	12	6.4	390	145
11	9.9	17	21	26	22	233	72	43	8.7	7.3	325	198
12	10	19	18	27	21	197	96	37	9.0	7.7	213	172
13	11	19	18	27	20	162	99	32	9.1	20	118	127
14	11	19	19	42	19	132	84	28	7.7	52	79	85
15	11	19	18	62	29	113	67	25	7.6	160	76	54
16	11	17	18	62	159	93	55	23	7.5	320	113	37
17	9.8	17	18	53	245	83	169	21	6.5	299	106	28
18	11	15	17	34	324	81	392	28	8.8	373	85	25
19	11	13	16	26	424	92	530	39	10	334	65	35
20	12	12	14	22	445	134	451	40	9.5	276	49	46
21	12	14	15	19	412	157	381	31	8.5	251	36	52
22	12	15	15	18	369	153	332	24	7.7	213	27	451
23	12	15	17	38	292	135	265	18	6.1	152	22	468
24	12	14	22	229	204	121	197	20	5.4	96	19	339
25	13	13	27	245	144	163	194	46	5.1	67	20	247
26	12	12	24	226	112	259	222	56	5.5	80	19	153
27	14	11	22	220	90	361	223	47	6.9	250	22	93
28	17	12	18	185	79	477	175	34	6.4	161	117	61
29	16	12	23	132	164	520	125	25	5.4	85	353	42
30	15	13	31	95	---	500	100	20	4.5	117	381	27
31	15	---	39	82	---	459	---	20	---	263	386	---
TOTAL	372.0	443	710	2111	4020	6238	5956	1721	310.9	3641.3	4362	4003
MEAN	12.0	14.8	22.9	68.1	139	201	199	55.5	10.4	117	141	133
MAX	17	19	51	245	445	520	530	178	24	373	390	468
MIN	5.4	11	14	18	19	66	55	18	4.5	3.2	19	25
CFSM	.12	.15	.24	.70	1.43	2.08	2.05	.57	.11	1.21	1.46	1.38
IN.	.14	.17	.27	.81	1.55	2.40	2.29	.66	.12	1.40	1.68	1.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	61.5	143	212	147	236	247	175	119	77.1	48.3	31.8	50.9																
MAX	326	560	477	306	578	462	305	316	349	196	186	232																
(WY)	1991	1986	1991	1976	1981	1972	1979	1984	1989	1987	1980	1979																
MIN	6.03	14.6	22.9	21.4	48.6	73.7	55.7	19.3	2.36	1.60	1.06	2.56																
(WY)	1983	1979	1992	1977	1987	1969	1971	1987	1988	1970	1971	1966																

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1966 - 1992	
ANNUAL TOTAL	30245.75		33888.2			
ANNUAL MEAN	82.9		92.6		128	
HIGHEST ANNUAL MEAN					174	
LOWEST ANNUAL MEAN					82.7	
HIGHEST DAILY MEAN	1190	Jan 1	530	Apr 19	2530	Nov 6 1985
LOWEST DAILY MEAN	.02	Aug 16	3.2	Jul 2	.02	Aug 16 1991
ANNUAL SEVEN-DAY MINIMUM	.14	Aug 13	4.8	Jun 29	.14	Aug 13 1991
INSTANTANEOUS PEAK FLOW			582	Sep 22 a	2740	Nov 6 1985
INSTANTANEOUS PEAK STAGE			9.84	Sep 22	12.40	Nov 6 1985
INSTANTANEOUS LOW FLOW			3.2	Jul 2	.02	Aug 16 1991
ANNUAL RUNOFF (CFSM)	.86		.96		1.33	
ANNUAL RUNOFF (INCHES)	11.64		13.04		18.04	
10 PERCENT EXCEEDS	258		264		345	
50 PERCENT EXCEEDS	17		35		54	
90 PERCENT EXCEEDS	4.4		10		5.5	

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.



03110000 YELLOW CREEK NEAR HAMMONDSVILLE, OH

LOCATION.--Lat 40°32'16", long 80°43'31", in sec. 29, T.8 N., R.2 W., Jefferson County, Hydrologic Unit 05030101, on right bank 1,000 ft upstream from Lowery Run, 0.9 mi upstream from Brush Creek and 1.6 mi southwest of Hammondsville.

DRAINAGE AREA.--147 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 692.10 ft above National Geodetic Vertical Datum of 1929 (Ohio State Highway Department bench mark).

REMARKS.--Estimated daily discharges: Dec. 26-31, Jan. 17 to Feb. 15. Records good except for July 1 to Sept. 30 and estimated daily discharges, which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	6.8	4.1	26	44	123	167	88	49	8.2	89	96
2	3.5	4.7	4.4	22	54	117	166	77	36	8.1	54	73
3	3.3	14	199	21	36	100	156	116	30	13	46	70
4	3.1	4.4	87	20	34	90	150	91	27	19	39	74
5	2.8	2.8	39	20	30	82	139	109	27	16	41	60
6	2.4	2.0	29	19	34	82	124	111	28	12	29	54
7	2.1	2.0	23	17	28	196	119	95	25	16	23	57
8	2.0	2.4	20	16	28	190	116	87	23	11	87	71
9	1.6	2.5	19	16	32	164	102	149	22	9.1	104	88
10	1.5	2.6	17	16	32	174	93	165	19	12	56	66
11	1.9	3.4	15	16	29	255	91	137	17	12	46	61
12	2.1	4.5	14	16	32	219	99	120	14	12	38	50
13	2.3	7.5	17	15	32	208	90	106	13	15	29	43
14	3.7	5.2	101	18	30	180	81	92	12	23	24	39
15	5.8	5.1	70	23	50	160	78	77	11	42	22	36
16	5.2	5.0	42	18	247	131	74	68	10	115	25	32
17	5.4	4.3	33	16	199	131	121	59	9.2	49	24	29
18	5.0	4.2	28	14	167	131	180	56	11	63	20	31
19	5.3	4.4	20	12	160	1150	154	57	20	46	17	740
20	5.6	4.4	22	10	148	692	139	50	18	28	16	248
21	5.6	4.3	20	10	128	388	132	44	15	36	14	144
22	5.4	5.1	20	10	109	309	154	39	13	61	12	349
23	5.5	10	25	28	99	357	127	36	13	66	10	419
24	5.5	13	47	150	96	301	118	39	14	251	10	235
25	7.5	7.4	39	72	96	266	116	51	16	121	12	161
26	9.9	5.1	36	58	86	245	111	39	14	72	18	125
27	3.8	4.1	32	50	78	233	103	35	13	120	22	114
28	17	3.9	28	48	73	203	92	32	11	77	929	99
29	15	3.5	27	44	127	169	84	29	9.6	51	885	76
30	13	3.7	26	38	---	169	85	35	8.6	70	274	64
31	9.6	---	24	36	---	182	---	53	---	96	151	---
TOTAL	166.0	152.3	1127.5	895	2338	7397	3561	2342	548.4	1550.4	3166	3804
MEAN	5.35	5.08	36.4	28.9	80.6	239	119	75.5	18.3	50.0	102	127
MAX	17	14	199	150	247	1150	180	165	49	251	929	740
MIN	1.5	2.0	4.1	10	28	82	74	29	8.6	8.1	10	29
CFSM	.04	.03	.25	.20	.55	1.62	.81	.51	.12	.34	.69	.86
IN.	.04	.04	.29	.23	.59	1.87	.90	.59	.14	.39	.80	.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)

MEAN	47.7	89.9	172	213	281	347	302	212	117	67.2	50.8	39.1
MAX	242	611	879	745	649	848	627	538	588	266	492	232
(WY)	1991	1986	1991	1952	1956	1945	1948	1956	1989	1958	1980	1975
MIN	4.92	5.08	10.8	20.8	23.6	55.1	75.9	40.0	10.1	6.12	3.95	2.33
(WY)	1954	1992	1964	1977	1954	1969	1941	1988	1988	1965	1962	1963

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1941 - 1992

ANNUAL TOTAL	42263.9	27047.6	
ANNUAL MEAN	116	73.9	162
HIGHEST ANNUAL MEAN			266
LOWEST ANNUAL MEAN			73.9
HIGHEST DAILY MEAN	1300	Jan 1	6440
LOWEST DAILY MEAN	1.5	Oct 10	.80
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 7	.80
INSTANTANEOUS PEAK FLOW			1920
INSTANTANEOUS PEAK STAGE		5.62	Aug 28 a
INSTANTANEOUS LOW FLOW		1.5	Oct 10
ANNUAL RUNOFF (CFSM)	.79	.50	1.10
ANNUAL RUNOFF (INCHES)	10.70	6.84	14.93
10 PERCENT EXCEEDS	333	165	386
50 PERCENT EXCEEDS	25	35	74
90 PERCENT EXCEEDS	3.3	4.9	10

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

## SHORT CREEK BASIN

## 03111500 SHORT CREEK NEAR DILLONVALE, OH

LOCATION.--Lat 40°11'38", long 80°44'03", in sec. 30, T.4 N., R.2 W., Jefferson County, Hydrologic Unit 05030106, on right bank 350 ft downstream from bridge on State Highway 150, 2.1 mi east of Dillonvale, 2.2 mi downstream from Jug Run, and 2.9 mi upstream from Little Short Creek.

DRAINAGE AREA.--123 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WSP 1003: 1942-43. WSP 1907: Drainage area. WRD-OH-82-1: 1981

GAGE.--Water-stage recorder. Datum of gage is 675.1 ft above National Geodetic Vertical Datum of 1929, (State of Ohio bench mark). Prior to Oct. 21, 1982 at datum 1.00 ft higher, prior to Oct. 21, 1941, nonrecording gage at same site and 676.1 elevation.

REMARKS.--Estimated daily discharges: Jan. 17-30, Feb. 3-5. Records good except for those for periods of estimated record which are fair. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974. U.S. Army Corps of Engineers satellite telemeter at station. Water year 1986 stream flow records published in 1987 water year report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	16	27	43	67	70	127	72	55	26	170	96
2	21	17	29	43	53	68	124	72	46	56	124	76
3	19	19	356	43	48	61	117	164	42	48	101	82
4	19	19	130	40	46	60	111	99	41	50	87	88
5	18	16	75	38	46	57	104	93	47	34	75	70
6	18	21	59	36	55	62	97	83	47	45	66	64
7	18	20	48	33	57	119	95	74	40	30	59	85
8	17	20	42	32	54	111	96	74	46	25	56	109
9	16	18	44	36	43	96	90	164	41	24	59	78
10	17	18	45	41	39	95	84	142	34	23	52	79
11	22	23	37	39	56	130	83	112	30	24	51	83
12	24	25	35	36	37	112	80	97	28	22	65	65
13	22	26	36	34	50	103	74	89	27	41	48	56
14	20	26	174	48	58	96	72	82	27	36	44	52
15	20	23	92	40	64	89	71	74	25	35	42	50
16	20	24	61	32	231	79	69	69	24	52	43	46
17	19	28	51	32	134	82	88	64	24	39	39	44
18	19	23	46	31	111	103	101	79	43	73	36	42
19	19	20	30	30	102	785	87	83	45	71	35	81
20	18	21	49	30	95	305	80	68	32	45	34	61
21	18	21	46	30	85	209	80	58	30	98	31	49
22	17	29	42	28	76	241	93	52	28	78	29	114
23	18	45	55	145	71	288	76	48	26	59	28	164
24	18	36	80	290	73	200	81	52	28	223	28	89
25	18	29	55	110	71	169	87	54	29	123	33	69
26	18	23	42	84	66	156	90	47	25	526	34	61
27	17	20	41	76	62	159	83	46	25	690	41	63
28	18	27	37	66	60	142	75	45	22	182	1210	65
29	16	33	54	60	83	125	71	42	21	134	506	51
30	17	29	61	62	---	128	72	53	24	299	181	46
31	16	---	53	67	---	135	---	62	---	290	121	---
TOTAL	579	715	2032	1755	2093	4635	2658	2413	1002	3501	3528	2178
MEAN	18.7	23.8	65.5	56.6	72.2	150	88.6	77.8	33.4	113	114	72.6
MAX	24	45	356	290	231	785	127	164	55	690	1210	164
MIN	16	16	27	28	37	57	69	42	21	22	28	42
CFSM	.15	.19	.53	.46	.59	1.22	.72	.63	.27	.92	.93	.59
IN.	.18	.22	.61	.53	.63	1.40	.80	.73	.30	1.06	1.07	.66

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
MEAN	53.9	73.8	118	156	207	247	228	171	116	78.6	63.6	52.3
MAX	195	515	414	469	459	725	488	391	422	331	610	305
(WY)	1955	1986	1991	1950	1975	1945	1961	1967	1989	1990	1980	1974
MIN	13.8	13.8	12.1	20.9	24.8	54.7	69.3	51.4	28.0	17.4	11.5	8.62
(WY)	1954	1954	1944	1967	1954	1969	1946	1976	1988	1954	1945	1947

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1942 - 1992	
ANNUAL TOTAL	39265		27089		130	
ANNUAL MEAN	108		74.0		225	
HIGHEST ANNUAL MEAN					1980	
LOWEST ANNUAL MEAN					46.1	
HIGHEST DAILY MEAN	803	Jan 12	1210	Aug 28	3620	Mar 6 1945
LOWEST DAILY MEAN	16	Aug 17	16	Oct 9	2.8	Sep 21 1947
ANNUAL SEVEN-DAY MINIMUM	17	Oct 27	17	Oct 27	4.9	Dec 14 1943
INSTANTANEOUS PEAK FLOW			2180	Aug 28 a	8200	Jun 15 1990
INSTANTANEOUS PEAK STAGE			7.32	Aug 28	12.27	Jun 15 1990
INSTANTANEOUS LOW FLOW			16	Oct 9	2.8	Sep 21 1947
ANNUAL RUNOFF (CFSM)	.87		.60		1.06	
ANNUAL RUNOFF (INCHES)	11.88		8.19		14.35	
10 PERCENT EXCEEDS	272		126		272	
50 PERCENT EXCEEDS	51		52		77	
90 PERCENT EXCEEDS	19		20		21	

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

03111548 WHEELING CREEK BELOW BLAINE, OH

LOCATION.--Lat 40°04'01", long 80°48'31", Belmont County, Hydrologic Unit 05030106, on left bank at bridge on Pease Township Road 320 near U.S. Route 40, 0.5 mi east of Blaine, and 4.8 mi upstream from mouth.  
 DRAINAGE AREA.--97.7 mi<sup>2</sup>.  
 PERIOD OF RECORD.--December 1982 to September 1987, October 1988 to current year.  
 GAGE.--Water-stage recorder. Datum of gage is 699.11 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1988 at datum 1.00 ft higher.  
 REMARKS.--Estimated daily discharges: Jan. 16-28, Feb. 3-15. Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	24	38	53	68	128	62	48	25	177	67
2	18	18	37	38	48	63	125	91	46	30	118	60
3	22	18	462	35	46	58	117	213	42	33	95	66
4	23	17	102	35	44	58	110	97	41	31	82	68
5	20	16	54	33	44	55	100	88	42	37	70	79
6	18	18	44	30	48	65	91	78	42	55	64	64
7	18	18	38	28	48	114	89	70	38	34	58	58
8	18	18	35	27	44	86	87	75	38	27	56	69
9	18	18	35	31	42	75	82	159	38	25	59	58
10	18	18	35	35	62	80	80	129	43	24	52	53
11	19	22	30	33	40	98	79	95	35	22	72	50
12	21	22	28	30	38	87	76	87	32	25	61	46
13	19	24	32	29	42	80	68	82	32	49	50	42
14	18	23	185	41	38	76	66	79	30	40	46	41
15	18	22	70	35	60	74	66	74	30	53	46	40
16	19	24	47	30	259	70	67	72	30	44	46	39
17	18	24	42	28	117	79	97	65	30	34	42	39
18	18	21	38	26	92	239	91	63	48	49	38	37
19	19	21	37	26	94	1150	79	64	41	93	37	45
20	18	22	47	26	86	321	72	61	32	45	35	42
21	17	23	41	25	77	215	77	58	31	51	34	40
22	18	45	42	25	69	288	80	54	27	55	31	124
23	19	51	59	350	64	283	70	51	26	43	31	124
24	19	32	66	140	70	186	71	55	32	105	30	61
25	19	26	44	95	67	158	71	54	36	75	28	50
26	19	23	37	64	62	145	82	49	30	294	27	47
27	19	22	35	60	58	149	71	46	27	466	52	52
28	19	28	38	52	60	127	65	45	25	97	672	48
29	18	33	50	51	96	111	61	44	24	300	307	43
30	17	26	57	49	---	129	66	54	24	1030	115	41
31	18	---	44	52	---	155	---	53	---	519	83	---
TOTAL	582	711	1935	1597	1968	4942	2484	2369	1040	3810	2714	1693
MEAN	18.8	23.7	62.4	51.5	67.9	159	82.8	76.4	34.7	123	87.5	56.4
MAX	23	51	462	350	259	1150	128	213	48	1030	672	124
MIN	17	16	24	25	38	55	61	44	24	22	27	37
CFSM	.19	.24	.64	.53	.69	1.63	.85	.78	.35	1.26	.90	.58
IN.	.22	.27	.74	.61	.75	1.88	.95	.90	.40	1.45	1.03	.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1992, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	49.1	111	135	112	158	147	174	149	110	80.8	40.2	39.9
MAX (WY)	138	402	395	294	262	202	298	298	288	230	87.5	95.2
MIN (WY)	1991	1986	1991	1991	1986	1989	1983	1983	1989	1990	1992	1990
MIN (WY)	17.9	23.7	44.4	51.5	67.9	72.7	73.9	52.8	34.7	35.8	16.6	9.53
(WY)	1989	1992	1989	1992	1992	1987	1986	1986	1992	1991	1986	1985

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1982 - 1992	
ANNUAL TOTAL	36385		25845			
ANNUAL MEAN	99.7		70.6		107	
HIGHEST ANNUAL MEAN					143	
LOWEST ANNUAL MEAN					70.6	
HIGHEST DAILY MEAN	770	Jan 12	1150	Mar 19	2640	Nov 16 1985
LOWEST DAILY MEAN	16	Sep 9	16	Nov 5	7.0	Sep 21 1985
ANNUAL SEVEN-DAY MINIMUM	17	Oct 30	17	Oct 30	7.4	Sep 17 1985
INSTANTANEOUS PEAK FLOW			2550	Jul 30 a	4840	Jul 12 1990
INSTANTANEOUS PEAK STAGE			6.59	Jan 23	7.72	Jul 12 1990
INSTANTANEOUS LOW FLOW			16	Nov 5	7.0	Sep 21 1985
ANNUAL RUNOFF (CFSM)	1.02		.72		1.10	
ANNUAL RUNOFF (INCHES)	13.85		9.84		14.92	
10 PERCENT EXCEEDS	239		116		219	
50 PERCENT EXCEEDS	44		47		70	
90 PERCENT EXCEEDS	19		20		22	

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.



## 03115971 SCHOCALOG RUN AT FAIRLAWN, OHIO

LOCATION.--Lat 41 07'28", long 81°37'23", Summit County, Hydrologic Unit 05040001, on right upstream side of triple barrel culvert under Trunko Road, 0.7 mi east of Cleveland-Massillon Road, 1.6 mi southeast of intersection of State Route 18 and I-77, 3.1 mi northwest of Akron corporate boundary.

DRAINAGE AREA.--2.13 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1, 1991 to September 30, 1992.

GAGE.--Water-stage recorder. Elevation of gage is 978 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-18. Record good, except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.38	6.0	1.8	1.6	2.0	3.4	3.1	2.2	.98	6.2	1.3
2	.19	.26	10	1.8	1.5	1.8	3.2	3.4	1.2	1.0	2.3	1.4
3	.16	.49	18	1.6	1.5	1.3	2.6	3.2	.55	1.2	1.9	16
4	1.5	.42	5.5	1.8	1.5	.59	2.1	2.3	.50	.58	3.5	31
5	1.0	.29	4.3	1.8	1.7	.76	1.8	2.0	1.1	.74	1.9	3.6
6	.66	.27	3.8	1.7	1.5	3.2	1.7	2.2	2.5	.50	1.4	2.2
7	.45	.27	3.3	1.7	1.5	5.2	1.7	1.3	1.0	.43	1.2	1.8
8	.32	.29	3.4	1.6	1.4	3.9	1.9	1.2	.87	.21	3.2	2.4
9	.25	.31	3.0	1.9	.81	2.5	1.1	2.0	.80	.18	1.9	17
10	2.8	.28	2.8	1.7	.05	4.0	1.5	.55	.57	2.8	1.3	47
11	2.0	3.4	2.6	1.6	.04	2.7	1.5	.91	.36	3.1	2.0	6.4
12	1.3	3.4	2.4	1.6	.19	2.0	1.5	.97	.16	6.3	1.2	2.7
13	.90	1.4	3.0	1.6	.91	2.0	.89	.59	.13	46	3.1	2.1
14	.66	.66	2.2	8.0	1.6	1.7	.84	.63	.23	19	1.3	1.9
15	.78	1.7	2.0	2.5	10	1.6	.93	.09	.17	30	8.0	1.7
16	.64	3.4	1.8	1.9	6.7	1.5	1.9	.07	.19	8.3	8.9	1.5
17	.90	.55	2.4	1.7	2.2	2.0	11	.15	.06	26	1.9	1.3
18	1.3	.55	2.1	1.5	2.8	2.3	18	.36	4.3	15	1.4	4.9
19	.32	.97	2.1	1.5	6.7	3.8	6.0	.22	2.6	2.9	2.4	7.0
20	.37	.64	2.0	1.5	3.7	3.9	3.1	.16	1.1	4.1	1.2	1.7
21	.28	.68	2.5	1.5	2.5	3.8	6.2	.13	.65	5.8	.92	5.5
22	.25	.53	2.0	1.4	2.4	4.1	5.3	.07	.52	2.4	.90	12
23	.30	.52	3.1	7.2	1.9	3.4	2.7	1.3	1.7	3.1	.89	3.2
24	.31	.74	2.5	4.4	1.6	4.1	3.3	5.3	5.8	11	4.8	1.7
25	.27	.51	2.2	2.4	1.5	4.5	2.8	1.7	2.1	5.4	6.2	1.5
26	.19	.46	2.2	1.9	1.4	6.5	2.3	1.8	1.2	4.7	1.6	1.3
27	.28	5.0	2.1	1.7	1.2	7.4	1.9	2.2	1.3	2.8	5.4	1.5
28	.30	11	2.1	1.6	3.6	3.7	2.0	2.3	1.1	1.6	34	1.3
29	.26	9.6	2.0	1.5	3.6	2.6	2.1	2.4	1.0	1.4	7.0	1.1
30	.21	8.0	2.0	1.5	---	2.7	2.5	4.6	.85	13	2.2	1.1
31	.33	---	1.9	1.7	---	2.4	---	5.6	---	48	1.6	---
TOTAL	19.71	56.97	107.3	67.6	67.60	93.95	97.76	52.80	36.81	268.52	121.71	185.1
MEAN	.64	1.90	3.46	2.18	2.33	3.03	3.26	1.70	1.23	8.66	3.93	6.17
MAX	2.8	11	18	8.0	10	7.4	18	5.6	5.8	48	34	47
MIN	.16	.26	1.8	1.4	.04	.59	.84	.07	.06	.18	.89	1.1
CFSM	.28	.84	1.54	.97	1.04	1.35	1.45	.76	.55	3.85	1.74	2.74
IN.	.33	.94	1.77	1.12	1.12	1.55	1.62	.87	.61	4.44	2.01	3.06

## SUMMARY STATISTICS

## FOR 1992 WATER YEAR

ANNUAL TOTAL	1175.83
ANNUAL MEAN	3.21
HIGHEST DAILY MEAN	48 Jul 31
LOWEST DAILY MEAN	.04 Feb 11
ANNUAL SEVEN-DAY MINIMUM	.17 May 16
INSTANTANEOUS PEAK FLOW	96 Jul 31
INSTANTANEOUS PEAK STAGE	12.59 Jul 31
INSTANTANEOUS LOW FLOW	.03 Feb 12
ANNUAL RUNOFF (CFSM)	1.43
ANNUAL RUNOFF (INCHES)	19.44
10 PERCENT EXCEEDS	6.2
50 PERCENT EXCEEDS	1.8
90 PERCENT EXCEEDS	.30

## MUSKINGUM RIVER BASIN

## 03115973 SCHOCALOG RUN AT COPLEY JUNCTION, OHIO

LOCATION.--Lat 41°06'11", long 81°36'12", Summit County, Hydrologic Unit 05040001, on right upstream side of six barrel culvert under the Akron Canton and Youngstown Railroad, 150 feet east of Schocalog Road, 0.25 miles west of Copley Junction, 0.3 miles downstream of Schocalog Lake, 0.8 miles southeast of intersection of I-77 and Ridgewood Road.

DRAINAGE AREA.--3.65 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1, 1991 to September 30, 1992.

GAGE.--Water-stage recorder. Elevation of gage is 969 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	.35	6.2	2.7	2.2	4.1	5.4	4.2	3.5	.92	16	2.3
2	.35	.43	7.4	2.7	2.0	3.0	5.7	4.6	2.3	1.0	5.9	2.0
3	.28	.33	26	2.7	1.9	2.5	4.7	4.8	1.5	.95	3.5	11
4	2.4	.56	7.2	2.8	1.9	1.5	3.7	3.9	1.1	1.1	5.5	54
5	2.4	.58	5.1	2.7	2.0	1.2	2.8	3.2	1.3	1.7	4.9	9.6
6	1.7	.57	4.1	2.6	2.0	4.4	2.5	2.8	3.1	1.8	3.0	4.7
7	.90	.54	3.5	2.6	1.9	8.8	2.6	2.0	2.3	.88	2.1	3.3
8	.58	.46	3.3	2.7	1.9	8.7	3.1	1.9	1.6	.30	4.1	3.8
9	.44	.39	3.0	3.4	1.6	4.8	2.4	2.2	1.5	.27	4.5	12
10	5.8	.43	2.7	3.0	.86	6.2	2.3	2.2	1.2	1.6	2.8	80
11	3.1	4.0	2.6	2.8	.51	6.0	3.0	1.3	1.1	4.1	2.8	15
12	1.3	4.5	2.6	2.6	.35	3.8	2.9	1.9	.72	3.0	2.5	6.2
13	1.8	3.5	3.4	2.7	.99	3.3	2.0	1.7	.24	64	3.6	4.6
14	1.2	1.6	2.7	11	1.9	2.7	1.5	1.0	.49	28	3.0	3.3
15	1.3	1.5	2.3	4.5	11	2.4	1.5	.92	.93	42	8.7	2.7
16	1.1	3.9	2.1	3.2	17	2.2	2.1	.75	.72	20	18	2.3
17	1.6	1.7	2.4	2.6	4.9	2.8	17	.62	.28	30	5.2	2.3
18	2.3	1.0	2.4	2.4	4.7	3.4	29	.71	7.7	32	3.0	4.1
19	.94	1.2	2.2	2.2	11	6.5	18	1.0	6.0	7.8	3.5	13
20	.71	1.2	2.1	2.3	7.4	7.0	7.8	.76	1.5	6.7	2.7	4.8
21	.60	1.1	4.0	2.0	4.8	7.0	10	.73	1.2	13	2.2	6.7
22	.51	1.0	3.9	1.8	4.1	7.0	12	.57	.55	6.7	1.9	23
23	.38	.82	4.1	8.5	3.3	6.4	6.8	1.4	.81	5.1	1.8	8.8
24	.32	1.0	3.9	10	2.7	6.7	7.0	7.8	7.9	20	4.8	4.5
25	.28	.84	2.9	3.8	2.5	8.7	6.4	3.5	3.8	15	13	2.6
26	.28	.69	2.6	2.7	2.4	12	5.1	1.5	1.9	8.9	3.5	2.6
27	.27	1.7	2.6	2.3	2.1	13	3.6	1.8	1.5	7.4	3.5	2.6
28	.28	9.9	2.6	2.2	3.9	8.0	3.6	2.0	1.4	3.7	55	2.7
29	.28	9.2	3.3	1.9	9.3	4.9	3.3	2.0	1.3	2.2	17	2.2
30	.28	7.9	3.0	1.8	---	4.4	4.3	4.7	1.0	10	5.0	2.1
31	.31	---	2.5	2.1	---	3.7	---	9.7	---	83	2.8	---
TOTAL	34.37	62.89	128.7	103.3	113.11	167.1	182.1	78.16	60.44	423.12	215.8	298.8
MEAN	1.11	2.10	4.15	3.33	3.90	5.39	6.07	2.52	2.01	13.6	6.96	9.96
MAX	5.8	9.9	26	11	17	13	29	9.7	7.9	83	55	80
MIN	.27	.33	2.1	1.8	.35	1.2	1.5	.57	.24	.27	1.8	2.0
CFSM	.30	.57	1.14	.91	1.07	1.48	1.66	.69	.55	3.74	1.91	2.73
IN.	.35	.64	1.31	1.05	1.15	1.70	1.86	.80	.62	4.31	2.20	3.05

## SUMMARY STATISTICS

## FOR 1992 WATER YEAR

ANNUAL TOTAL	1867.89
ANNUAL MEAN	5.10
HIGHEST DAILY MEAN	83 Jul 31
LOWEST DAILY MEAN	.24 Jun 13
ANNUAL SEVEN-DAY MINIMUM	.28 Oct 25
INSTANTANEOUS PEAK FLOW	126 Jul 31
INSTANTANEOUS PEAK STAGE	12.60 Jul 31
INSTANTANEOUS LOW FLOW	.14 Jun 13
ANNUAL RUNOFF (CFSM)	1.40
ANNUAL RUNOFF (INCHES)	19.04
10 PERCENT EXCEEDS	9.9
50 PERCENT EXCEEDS	2.7
90 PERCENT EXCEEDS	.67

## 03117000 TUSCARAWAS RIVER AT MASSILLON, OH

LOCATION.--Lat 40°46'13", long 81°31'27", in sec. 20 T.10 N., R.9 W., Stark County, Hydrologic Unit 05040001, on left bank at sewage-treatment works, 0.7 mi south of Massillon, and 3 mi downstream from Newman Creek.

DRAINAGE AREA.--518 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1937 to current year. Prior to April 1938 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 916.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 17-22. Records good except those for periods of estimated record which are fair. Some water diverted through the Portage Lakes into the Ohio Canal at Long Lake, 28 mi and 3 mi south of Akron. Part of the diverted water flows through the Ohio Canal into the Cuyahoga River basin. Flow affected by industrial plants upstream from station and supplemented at times by diversion from Nimisila Reservoir, capacity, 6,500 acre-ft, since 1939. Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	75	97	142	194	345	540	342	270	102	2980	354
2	69	71	131	137	182	290	555	305	217	136	2200	265
3	70	72	627	131	173	259	555	395	181	127	1090	272
4	73	72	516	128	175	234	496	391	159	109	1130	459
5	94	71	296	125	187	221	423	369	145	90	821	474
6	84	78	229	126	182	272	349	306	133	102	579	291
7	78	81	167	122	176	495	313	253	119	94	430	237
8	71	77	136	114	170	708	289	226	116	78	603	225
9	69	75	139	114	152	655	263	242	113	76	1980	231
10	104	72	136	123	128	493	233	235	108	112	1380	1530
11	161	102	127	122	166	563	242	205	104	131	652	2280
12	124	181	120	113	141	472	308	185	98	131	396	1260
13	99	175	157	113	167	376	271	175	92	110	305	501
14	96	154	216	260	172	318	241	172	85	2090	274	349
15	95	136	194	425	223	290	218	166	109	2690	330	292
16	184	122	149	221	844	264	205	154	120	3210	871	257
17	247	113	134	170	760	254	481	148	90	3070	814	232
18	242	103	112	150	527	306	1260	203	167	2850	491	238
19	237	103	107	130	649	635	1720	198	294	2400	364	431
20	226	112	89	110	681	839	1400	167	194	1330	319	378
21	168	128	131	100	512	638	846	143	125	1030	239	482
22	111	112	137	90	397	630	946	131	111	956	182	3030
23	102	94	143	224	350	813	784	126	110	923	164	2940
24	76	88	169	650	318	710	686	195	161	1520	158	1970
25	70	87	158	424	289	683	781	264	182	1430	228	947
26	64	81	144	305	264	739	634	212	145	899	258	539
27	63	76	127	275	264	1070	549	194	127	785	205	418
28	76	75	115	232	235	1090	452	161	110	599	1510	369
29	82	86	119	199	337	716	363	136	102	458	2130	318
30	84	94	133	197	---	554	332	180	98	829	1250	281
31	78	---	143	193	---	624	---	282	---	2840	590	---
TOTAL	3465	2966	5398	5965	9015	16556	16735	6861	4185	32307	24923	21850
MEAN	112	98.9	174	192	311	534	558	221	139	1042	804	728
MAX	247	181	627	650	844	1090	1720	395	294	3210	2980	3030
MIN	63	71	89	90	128	221	205	126	85	76	158	225

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

	201	283	433	511	735	887	719	501	380	309	230	216
MEAN	201	283	433	511	735	887	719	501	380	309	230	216
MAX	1206	1628	1621	1989	1659	1827	1587	1392	1852	1812	1273	1465
(WY)	1991	1986	1991	1952	1959	1978	1957	1947	1947	1969	1958	1979
MIN	70.0	81.4	81.5	94.6	98.0	283	172	121	81.2	79.1	82.9	69.9
(WY)	1964	1945	1964	1945	1964	1969	1946	1941	1988	1954	1962	1954

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1938 - 1992	
ANNUAL TOTAL	139419		150226			
ANNUAL MEAN	382		410		449	
HIGHEST ANNUAL MEAN					661	
LOWEST ANNUAL MEAN					245	
HIGHEST DAILY MEAN	5520	Jan 1	3210	Jul 16	9360	Jul 6 1969
LOWEST DAILY MEAN	57	Sep 2	63	Oct 27	49	Jul 17 1988
ANNUAL SEVEN-DAY MINIMUM	70	Sep 28	74	Oct 24	53	Jul 12 1988
INSTANTANEOUS PEAK FLOW			3300	Jul 16	10700	Jul 5 1969
INSTANTANEOUS PEAK STAGE			8.51	Jul 16	16.43	Jul 5 1969
INSTANTANEOUS LOW FLOW			63	Oct 27	49	Jul 17 1988
10 PERCENT EXCEEDS	869		906		1050	
50 PERCENT EXCEEDS	159		216		226	
90 PERCENT EXCEEDS	75		90		101	











03135000 LAKE FORK BELOW MOHICANVILLE DAM, NEAR MOHICANVILLE, OH

LOCATION.--Lat 40°43'24", long 82°09'18", in sec. 3, T.20 N., R.15 W., Ashland County, Hydrologic Unit 05040001, on right bank 800 ft downstream from Mohicanville Dam, 2 mi east of Mohicanville, and 2.4 mi downstream from the confluence of Jerome and Muddy Forks.

DRAINAGE AREA.--271 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1938 to current year. Published as Lake Fork near Mohicanville prior to 1940.

REVISED RECORDS.--WSP 1907; Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 930.00 ft above National Geodetic Vertical Datum of 1929. Prior to July 25, 1949, water-stage recorder at site 500 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 16-21. Records good except estimated discharges which are poor. Flow regulated by Mohicanville Reservoir. Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	19	21	28	78	143	262	139	91	79	839	69
2	16	18	20	27	65	114	282	126	71	281	829	61
3	17	17	161	28	65	98	259	130	57	100	817	59
4	20	16	108	29	67	85	222	110	49	61	811	60
5	32	16	46	27	76	78	184	108	52	60	807	58
6	22	18	35	25	75	92	155	96	260	87	808	54
7	28	18	31	25	75	324	142	86	115	53	811	51
8	26	20	30	24	62	568	135	78	81	45	807	62
9	19	18	28	25	49	361	121	89	63	46	774	62
10	31	17	27	29	44	270	113	79	52	49	778	607
11	43	23	24	27	47	299	117	70	46	89	728	396
12	23	25	23	25	39	221	152	66	41	61	454	174
13	20	27	25	24	42	177	120	61	38	457	308	129
14	17	26	30	211	45	145	105	58	36	705	247	115
15	23	23	26	223	78	126	97	55	102	709	209	86
16	26	23	23	100	660	108	94	52	42	750	214	74
17	20	22	28	65	438	118	246	50	34	763	167	66
18	19	19	27	44	288	132	689	62	342	796	132	63
19	21	28	22	36	445	490	803	62	224	799	114	128
20	20	36	20	32	460	541	650	50	123	782	100	104
21	18	31	24	30	294	533	430	45	89	785	87	142
22	19	25	30	39	206	470	422	43	71	808	78	773
23	20	21	30	64	166	538	327	40	60	774	69	752
24	19	24	43	347	138	436	360	131	316	720	65	474
25	19	23	35	204	117	370	383	96	182	753	62	285
26	21	19	28	146	104	417	291	70	105	800	59	210
27	19	18	26	105	95	450	241	60	76	791	71	174
28	18	19	24	90	87	434	195	51	61	826	180	152
29	20	19	27	79	151	302	161	45	53	798	168	128
30	19	18	34	73	---	269	147	74	47	790	103	109
31	19	---	30	75	---	309	---	105	---	777	81	---
TOTAL	670	646	1086	2306	4556	9018	7905	2387	2979	15394	11777	5677
MEAN	21.6	21.5	35.0	74.4	157	291	263	77.0	99.3	497	380	189
MAX	43	36	161	347	660	568	803	139	342	826	839	773
MIN	16	16	20	24	39	78	94	40	34	45	59	51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

MEAN	59.6	128	240	286	428	548	452	280	178	161	82.8	65.1
MAX	463	751	790	1050	1502	1065	1092	794	832	1934	582	369
(WY)	1991	1973	1978	1950	1959	1963	1978	1969	1947	1969	1958	1979
MIN	9.53	12.4	12.7	18.2	27.1	130	67.5	48.6	23.1	13.9	12.4	8.40
(WY)	1954	1964	1964	1945	1964	1969	1946	1941	1988	1954	1952	1954

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1939 - 1992	
ANNUAL TOTAL	83685		64401			
ANNUAL MEAN	229		176		241	
HIGHEST ANNUAL MEAN					432	
LOWEST ANNUAL MEAN					113	
HIGHEST DAILY MEAN	1120	Jan 11	839	Aug 1	3760	Mar 13 1939
LOWEST DAILY MEAN	12	Aug 16	16	Oct 1	1.0	Jun 10 1947
ANNUAL SEVEN-DAY MINIMUM	14	Aug 24	17	Nov 1	5.6	Sep 27 1954
INSTANTANEOUS PEAK FLOW			949	Jul 23	5490	Jul 5 1969
INSTANTANEOUS PEAK STAGE			7.75	Jul 23	14.32	Jul 5 1969
INSTANTANEOUS LOW FLOW			16	Oct 1	1.0	Jun 10 1947
10 PERCENT EXCEEDS	950		580		818	
50 PERCENT EXCEEDS	36		75		86	
90 PERCENT EXCEEDS	16		20		18	











03144000 WAKATOMIKA CREEK NEAR FRAZEYSBURG, OH

LOCATION.--Lat 40°07'57", long 82°08'53", in NW 1/4 sec. 13, T.3 N., R.9 W., Muskingum County, Hydrologic Unit 05040004, on right bank 2.0 mi northwest of Frazeytsburg, 2.0 mi downstream from Fivemile Run, and 2.5 mi upstream from Black Run.

DRAINAGE AREA.--140 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1936 to current year.

REVISED RECORDS.--WSP 1113: 1937(M). WSP 1555: 1952(M).

GAGE.--Water-stage recorder. Datum of gage is 748.12 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 31, 1936, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 5-29, Jan. 17 to Mar. 4. Records good except for estimated daily discharges, which are poor. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1970 to 1974. U. S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	8.2	19	19	22	28	142	78	32	8.5	118	107
2	4.8	9.6	20	19	21	27	134	74	26	8.9	89	84
3	4.8	10	149	19	20	27	120	132	22	10	74	101
4	5.0	8.9	65	20	20	27	117	95	20	9.9	83	105
5	5.2	9.5	31	19	21	28	103	83	25	11	68	76
6	5.6	9.5	25	18	25	31	84	76	23	207	54	66
7	6.0	10	21	17	27	134	77	67	21	53	48	59
8	6.4	11	19	16	32	316	75	66	20	32	101	56
9	6.0	10	20	16	31	222	72	103	17	25	441	55
10	5.8	10	18	16	29	162	70	90	15	20	158	50
11	9.0	13	16	16	28	208	65	75	13	18	102	47
12	8.0	18	14	15	27	161	63	69	11	16	76	41
13	7.4	18	18	14	25	125	56	64	11	39	60	37
14	6.6	17	64	20	24	97	51	58	10	45	53	35
15	7.6	15	47	31	29	83	50	52	10	116	73	34
16	7.0	14	32	25	70	73	49	47	9.7	127	135	31
17	6.6	14	26	23	64	67	118	43	9.0	516	76	29
18	6.2	14	24	21	58	82	254	40	16	546	60	29
19	6.0	14	26	19	52	1070	304	40	27	194	52	84
20	6.0	13	23	17	48	493	209	38	27	413	47	53
21	5.8	14	16	16	44	279	206	33	17	1530	41	40
22	5.8	16	18	15	41	215	255	28	13	583	37	284
23	5.6	16	24	17	39	212	189	26	12	275	35	164
24	5.4	15	37	28	37	152	161	26	12	396	33	85
25	5.2	14	32	50	34	127	141	26	14	677	31	65
26	5.0	14	25	70	33	137	124	24	15	559	29	55
27	5.0	13	25	66	32	155	115	23	14	682	109	50
28	4.9	14	20	45	30	135	91	21	11	315	2260	44
29	4.8	16	22	35	29	118	81	19	9.5	194	611	39
30	4.9	17	23	27	---	126	81	33	8.7	181	247	36
31	6.8	---	21	24	---	155	---	41	---	156	154	---
TOTAL	184.3	395.7	940	773	992	5272	3657	1690	490.9	7963.3	5555	2041
MEAN	5.95	13.2	30.3	24.9	34.2	170	122	54.5	16.4	257	179	68.0
MAX	9.0	18	149	70	70	1070	304	132	32	1530	2260	284
MIN	4.8	8.2	14	14	20	27	49	19	8.7	8.5	29	29
CFSM	.04	.09	.22	.18	.24	1.21	.87	.39	.12	1.83	1.28	.49
IN.	.05	.11	.25	.21	.26	1.40	.97	.45	.13	2.12	1.48	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1992, BY WATER YEAR (WY)

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	38.7	86.3	158	216	262	309	299	188	113	82.5	60.6	39.3																																												
MAX	155	396	786	1219	560	883	654	601	491	432	720	617																																												
(WY)	1987	1986	1991	1937	1990	1963	1940	1968	1937	1990	1980	1979																																												
MIN	4.78	7.39	10.1	14.3	15.0	73.8	47.9	21.7	12.6	9.48	5.05	3.45																																												
(WY)	1964	1954	1964	1964	1964	1983	1941	1941	1988	1944	1962	1953																																												

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1937 - 1992	
ANNUAL TOTAL	43510.7		29954.2			
ANNUAL MEAN	119		81.8		154	
HIGHEST ANNUAL MEAN					270	
LOWEST ANNUAL MEAN					51.9	
HIGHEST DAILY MEAN	2200		2260		8910	
LOWEST DAILY MEAN	3.4		4.8		2.6	
ANNUAL SEVEN-DAY MINIMUM	3.8		5.0		2.7	
INSTANTANEOUS PEAK FLOW			3380		16800	
INSTANTANEOUS PEAK STAGE			6.98		14.07	
INSTANTANEOUS LOW FLOW			2.2		2.0	
ANNUAL RUNOFF (CFSM)	.85		.58		1.10	
ANNUAL RUNOFF (INCHES)	11.56		7.96		14.91	
10 PERCENT EXCEEDS	295		161		347	
50 PERCENT EXCEEDS	20		31		63	
90 PERCENT EXCEEDS	5.4		9.0		11	

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.







03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARDS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, FECAL, KF AGAR (COLS./100 ML) (31673)
NOV 14...	1145	1750	965	8.2	6.0	5.5	2.5	12.4	99	120	K7
JAN 09...	1115	1650	850	7.7	12.0	5.5	4.9	11.4	93	660	73
MAY 28...	1110	2710	637	8.1	19.0	19.5	6.5	9.2	102	K15	K2
JUL 06...	1145	2160	715	7.8	24.0	26.0	2.9	3.8	48	70	K22
SEP 01...	1030	8860	408	7.7	21.0	20.0	14	8.7	97	360	540

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY TOT WH FIELD (MG/L AS CACO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
NOV 14...	350	93	29	67	7.9	221	0	183	160	100	0.30
JAN 09...	340	90	27	44	4.6	171	0	140	190	65	0.40
MAY 28...	240	62	21	32	4.2	132	0	109	130	54	0.30
JUL 06...	250	64	23	42	5.8	150	0	124	130	76	0.30
SEP 01...	160	43	12	16	4.7	104	0	88	71	25	0.20

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS N) (70300)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
NOV 14...	3.4	575	2.20	0.030	0.020	0.60	0.120	0.050	0.040	30	56
JAN 09...	5.2	511	2.20	0.120	0.110	0.90	0.160	0.060	0.050	30	46
MAY 28...	0.04	371	0.420	0.020	0.020	0.40	0.060	0.030	<0.010	40	46
JUL 06...	1.8	436	0.720	0.260	0.250	0.80	0.060	0.040	0.020	20	50
SEP 01...	7.6	235	1.20	0.060	0.060	0.40	0.080	0.050	0.040	--	--

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 14...	<3	15	15	130	<10	6	<1	<1.0	320	<6	9
JAN 09...	<3	22	11	290	<10	7	<1	<1.0	350	<6	15
MAY 28...	<3	4	7	11	<10	3	<1	<1.0	290	<6	25
JUL 06...	<3	29	9	62	<10	4	<1	<1.0	310	<6	10
SEP 01...	--	--	--	--	--	--	--	--	--	--	39

K Results based on colony count outside the acceptable range.

## HOCKING RIVER BASIN

## 03157000 CLEAR CREEK NEAR ROCKBRIDGE, OH

LOCATION.--Lat 39°35'18", long 82°34'43", in NE 1/4 sec. 20, T.13 N., R.18 W., Hocking County, Hydrologic Unit 05030204, on left bank at upstream side of county road bridge, 400 ft downstream from unnamed right bank tributary, 2.0 mi upstream from mouth, and 3 mi west of Rockbridge.

DRAINAGE AREA.--89.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1305: 1940(M), 1943(M), 1945(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 760.13 ft above National Geodetic Vertical Datum of 1929. Prior to May 2, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 4-9, Jan 5-Feb. 2. Records good except for periods of estimated record which are fair. Water-quality data collected at this site 1965 to 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	19	24	26	33	29	122	57	61	17	54	39
2	16	19	31	25	27	28	91	54	47	16	44	34
3	17	19	111	25	27	28	77	51	40	15	37	53
4	19	18	45	25	28	26	70	45	42	14	39	47
5	19	18	42	28	27	25	61	45	50	13	31	38
6	20	19	37	25	26	51	54	41	60	15	27	35
7	19	19	33	24	26	89	53	38	45	13	25	31
8	16	20	30	23	25	97	51	40	40	12	30	50
9	18	19	27	22	22	70	52	136	33	13	109	40
10	17	19	20	21	23	111	58	83	28	13	51	35
11	19	22	18	21	24	130	61	64	26	12	40	32
12	21	21	18	20	22	82	52	55	23	15	34	27
13	19	22	25	20	31	65	45	50	22	236	30	26
14	18	21	65	20	38	56	45	46	20	66	41	24
15	23	21	34	19	67	50	46	41	21	118	323	23
16	20	22	25	19	104	45	45	37	18	105	190	23
17	18	20	24	19	60	48	67	34	18	244	83	21
18	18	20	22	19	51	70	70	51	99	157	54	22
19	18	21	20	18	47	302	98	71	96	104	43	24
20	17	22	23	18	43	125	80	46	49	59	36	21
21	18	21	23	20	39	93	74	38	37	139	31	20
22	18	22	23	30	36	82	88	34	29	90	28	28
23	19	23	43	54	35	72	71	31	25	103	29	41
24	19	21	44	90	38	62	65	41	23	203	27	30
25	19	20	31	74	35	59	59	41	21	103	27	27
26	19	19	26	60	34	82	60	36	19	565	27	27
27	19	19	24	50	32	89	68	31	18	555	36	26
28	20	21	23	40	32	74	81	28	16	217	160	22
29	20	22	27	33	33	66	64	27	16	122	97	22
30	19	23	32	30	---	91	62	89	16	104	61	20
31	19	---	29	35	---	223	---	91	---	72	51	---
TOTAL	577	612	999	953	1065	2520	1990	1572	1058	3530	1895	908
MEAN	18.6	20.4	32.2	30.7	36.7	81.3	66.3	50.7	35.3	114	61.1	30.3
MAX	23	23	111	90	104	302	122	136	99	565	323	53
MIN	16	18	18	18	22	25	45	27	16	12	25	20
CFSM	.21	.23	.36	.35	.41	.91	.75	.57	.40	1.28	.69	.34
IN.	.24	.26	.42	.40	.45	1.05	.83	.66	.44	1.48	.79	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1992, BY WATER YEAR (WY)

MEAN	29.1	52.0	90.3	112	147	171	156	119	72.4	55.1	43.8	30.5
MAX	126	327	351	324	321	585	365	554	287	280	292	213
(WY)	1976	1986	1991	1949	1979	1945	1940	1968	1941	1948	1979	1979
MIN	11.5	13.1	12.8	20.5	18.8	39.1	41.3	31.1	14.9	13.3	11.7	11.2
(WY)	1964	1965	1964	1977	1954	1941	1941	1988	1988	1944	1988	1955

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1940 - 1992
ANNUAL TOTAL	31064	17679	
ANNUAL MEAN	85.1	48.3	89.6
HIGHEST ANNUAL MEAN			164
LOWEST ANNUAL MEAN			28.8
HIGHEST DAILY MEAN	1100	Apr 15	4690
LOWEST DAILY MEAN	12	Jul 31	3.5
ANNUAL SEVEN-DAY MINIMUM	14	Jul 27	6.3
INSTANTANEOUS PEAK FLOW			1440
INSTANTANEOUS PEAK STAGE		6.36	Jul 26 <sup>a</sup>
INSTANTANEOUS LOW FLOW		12	Jul 7
ANNUAL RUNOFF (CFSM)	.96	.54	1.01
ANNUAL RUNOFF (INCHES)	12.98	7.39	13.68
10 PERCENT EXCEEDS	214	91	183
50 PERCENT EXCEEDS	25	31	44
90 PERCENT EXCEEDS	16	18	16

<sup>a</sup>. Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

03157500 HOCKING RIVER AT ENTERPRISE, OH

LOCATION.--Lat 39°33'54", long 82°28'30", in NW 1/4 sec. 5, T.14 N., R.17 W., Hocking County, Hydrologic Unit 05030204, on right bank at upstream side of bridge at Enterprise, 4.0 mi downstream from Buck Run, and 4.3 mi upstream from Scott Creek.

DRAINAGE AREA.--459 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1930 to current year. Prior to May 1931 monthly discharge only, published in WSP 1305

REVISED RECORDS.--WSP 873: 1938. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 723.58 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 24, 1933, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 14-21. Records good, except for periods of estimated record, which are fair. Flood flow affected by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft constructed between 1955 and 1961 upstream from station. Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1907, reached a stage of 22.0 ft, from floodmark, discharge, 36,000 ft<sup>3</sup>/s, from reports of U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	64	84	137	174	155	801	284	280	85	564	162
2	47	59	86	126	139	144	621	260	222	80	431	145
3	48	59	605	125	148	137	501	281	186	76	359	201
4	55	60	380	122	152	132	439	269	178	68	469	236
5	54	56	173	115	143	126	389	236	265	65	336	185
6	65	55	140	107	130	166	331	218	249	76	277	159
7	56	60	116	101	128	374	307	197	199	147	239	145
8	54	61	102	96	122	467	286	192	183	111	254	177
9	53	58	96	98	105	400	281	706	169	91	1440	165
10	53	56	91	100	89	429	301	622	142	82	699	149
11	58	62	84	98	117	785	315	425	121	80	401	136
12	67	67	79	93	94	536	286	340	109	87	306	124
13	69	74	96	92	126	412	248	288	99	2010	249	114
14	63	73	385	90	178	340	236	255	93	2590	217	109
15	80	71	285	88	218	305	238	220	91	1700	551	106
16	73	72	170	86	549	261	226	196	84	1610	563	99
17	66	75	141	80	366	248	335	177	79	3270	298	96
18	64	71	124	78	290	268	427	214	308	2560	227	95
19	61	71	91	76	263	1890	538	313	541	1560	193	118
20	63	75	103	76	238	1210	472	217	327	912	174	123
21	64	80	106	80	213	770	451	183	222	1410	157	107
22	61	83	113	95	194	593	551	157	170	1570	145	131
23	58	97	165	151	182	518	448	144	149	934	139	152
24	57	94	276	488	196	419	382	228	143	1140	131	122
25	58	85	193	386	195	362	342	249	139	875	125	105
26	58	80	145	366	178	424	327	198	129	1920	124	99
27	62	76	132	300	167	491	349	165	108	5360	156	96
28	65	77	122	219	158	457	377	146	94	2770	513	94
29	63	78	130	179	173	394	314	131	83	1340	491	92
30	60	75	166	157	---	422	302	275	79	1060	255	88
31	63	---	157	175	---	1030	---	394	---	749	195	---
TOTAL	1867	2124	5136	4580	5425	14665	11421	8180	5241	36388	10678	3930
MEAN	60.2	70.8	166	148	187	473	381	264	175	1174	344	131
MAX	80	97	605	488	549	1890	801	706	541	5360	1440	236
MIN	47	55	79	76	89	126	226	131	79	65	124	88
CFSM	.13	.15	.36	.32	.41	1.03	.83	.57	.38	2.56	.75	.29
IN.	.15	.17	.42	.37	.44	1.19	.93	.66	.42	2.95	.87	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1992, BY WATER YEAR (WY)

	125	246	433	624	790	936	856	591	358	285	229	162
MEAN	125	246	433	624	790	936	856	591	358	285	229	162
MAX	670	1864	1844	3605	1899	2875	2228	2499	1445	1437	1686	1087
(WY)	1976	1986	1991	1937	1979	1945	1940	1968	1981	1958	1980	1979
MIN	33.4	41.1	40.5	100	58.0	181	184	95.3	68.1	61.0	39.9	30.4
(WY)	1954	1954	1964	1977	1954	1941	1941	1934	1936	1988	1932	1953

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1931 - 1992	
ANNUAL TOTAL	183297		109635			
ANNUAL MEAN	502		300		468	
HIGHEST ANNUAL MEAN					860	
LOWEST ANNUAL MEAN					110	
HIGHEST DAILY MEAN	6130	Apr 15	5360	Jul 27	21600	Apr 20 1940
LOWEST DAILY MEAN	44	Sep 9	47	Oct 2	23	Aug 12 1944
ANNUAL SEVEN-DAY MINIMUM	50	Sep 29	53	Oct 1	27	Aug 7 1944
INSTANTANEOUS PEAK FLOW			5680	Jul 27 <sup>a</sup>	26000	Mar 10 1964
INSTANTANEOUS PEAK STAGE			11.73	Jul 27	21.31	Mar 10 1964
INSTANTANEOUS LOW FLOW			47	Oct 2	23	Aug 12 1944
ANNUAL RUNOFF (CFSM)	1.09		.65		1.02	
ANNUAL RUNOFF (INCHES)	14.86		8.89		13.84	
10 PERCENT EXCEEDS	1240		550		1060	
50 PERCENT EXCEEDS	140		157		208	
90 PERCENT EXCEEDS	58		65		57	

<sup>a</sup> Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.



03159510 HOCKING RIVER BELOW ATHENS, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, SOLVED (MG/L) (00300)	OXYGEN, SATUR-ATION (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML) (31673)
DEC 09...	1345	250	631	7.5	15.0	8.5	9.9	10.2	89	540	560
MAR 10...	1315	1120	464	7.7	13.5	12.0	--	11.6	112	1200	210
JUN 16...	1045	226	710	8.0	25.5	22.0	5.9	9.2	107	550	98
SEP 02...	1215	272	676	8.0	24.5	20.5	7.0	9.3	105	170	90

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY TOT FET FIELD (MG/L AS CACO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
DEC 09...	230	59	20	30	3.6	90	0	73	150	48	0.20
MAR 10...	--	--	--	--	--	74	0	61	--	--	--
JUN 16...	270	71	23	39	3.3	146	0	120	150	58	0.20
SEP 02...	280	72	25	30	3.9	152	0	124	150	49	0.20

SILICA, RESIDUE AT 180 DEG.C (MG/L AS SIO2) (00955) (70300)

NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00631) (00610)

NITRO-GEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00608) (00625)

NITRO-GEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS P) (00665) (00666)

PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS AL) (00671) (01106)

PHOS-PHORUS INUM, DIS-SOLVED (MG/L AS BA) (01005)

DEC 09...	7.9	391	1.20	0.340	0.350	0.70	0.040	0.010	0.010	<10	42
MAR 10...	--	--	0.900	0.050	0.060	0.40	0.100	<0.010	<0.010	--	--
JUN 16...	5.9	441	0.750	0.020	0.030	0.30	0.060	0.020	<0.010	20	47
SEP 02...	9.3	418	1.20	0.030	0.020	0.30	0.030	0.020	0.010	20	54

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELB-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 09...	<3	16	13	570	<10	9	<1	<1.0	270	<6	19
MAR 10...	--	--	--	--	--	--	--	--	--	--	66
JUN 16...	<3	8	12	86	<10	2	<1	<1.0	360	<6	29
SEP 02...	<3	7	12	98	<10	4	<1	<1.0	370	<6	22

SHADE RIVER BASIN

03159540 SHADE RIVER NEAR CHESTER, OH

LOCATION.--Lat 39°03'49", long 81°52'55", in NE 1/4 sec. 10, T.3N., R.12 W., Meigs County, Hydrologic Unit 05030202, on right bank at downstream side of bridge on Oak Hill Road, 200 ft upstream from Sugar Run, 2.8 mi southeast of Chester, and 8.5 mi northeast of Pomeroy.

DRAINAGE AREA.--156 mi<sup>2</sup>, includes that of Sugar Run.

PERIOD OF RECORD.--Water years 1956, 1962-64 (Occasional low-flow measurements), June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 576.91 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 15-21 and Sept. 4-30. Records good, except estimated records which are fair. Water-quality data collected at this site 1965-77, 1979-81. Sediment data collected 1970-74.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	2.1	40	91	116	165	410	80	108	30	65	22
2	4.3	4.0	33	127	97	132	293	72	69	31	51	15
3	3.7	4.7	25	224	69	112	223	140	52	26	49	11
4	3.7	3.8	23	229	81	99	193	195	88	27	474	7.3
5	3.6	4.2	25	167	76	87	187	113	417	26	133	12
6	3.6	3.8	25	130	68	230	160	86	185	84	68	10
7	3.4	3.7	28	109	60	642	143	70	107	48	47	9.0
8	3.1	3.9	83	115	58	885	132	74	250	28	37	8.2
9	3.2	4.8	2290	119	52	423	136	929	240	22	32	9.0
10	3.2	3.8	2880	97	46	297	208	522	142	23	29	10
11	3.0	3.9	276	83	45	343	254	236	85	22	26	9.2
12	3.1	3.6	146	72	43	254	209	162	62	22	23	9.0
13	3.1	3.4	113	70	325	197	160	122	50	20	21	8.2
14	3.1	3.4	90	99	387	164	135	102	127	36	17	7.8
15	3.3	5.8	79	90	327	146	129	80	131	30	15	7.2
16	3.6	11	155	80	338	122	123	66	75	22	13	6.8
17	4.0	17	151	70	208	107	117	57	54	27	12	6.4
18	4.5	15	103	62	185	145	180	63	109	20	12	5.8
19	4.0	12	89	55	163	1710	153	258	1020	29	10	5.8
20	3.4	10	325	52	133	1160	149	152	352	32	9.1	6.2
21	3.6	8.6	449	48	109	371	125	89	150	30	7.8	7.0
22	3.3	7.2	198	41	94	356	169	65	95	29	7.1	20
23	3.2	6.5	134	51	85	539	162	52	68	37	6.4	35
24	2.9	6.0	105	762	199	314	123	45	60	1080	6.2	66
25	2.6	6.2	78	475	217	230	102	48	88	1790	5.8	26
26	2.8	19	61	217	183	202	93	44	57	411	5.4	20
27	3.2	129	79	168	150	215	89	38	47	757	5.2	15
28	3.1	205	197	146	123	211	103	35	36	639	112	9.2
29	3.1	98	487	124	191	182	116	33	30	206	250	8.6
30	11	54	196	105	---	182	89	195	27	119	67	8.0
31	2.1	---	113	121	---	644	---	196	---	82	34	---
TOTAL	112.9	663.4	9076	4399	4228	10866	4865	4419	4381	5785	1650.0	400.7
MEAN	3.64	22.1	293	142	146	351	162	143	146	187	53.2	13.4
MAX	11	205	2880	762	387	1710	410	929	1020	1790	474	66
MIN	2.1	2.1	23	41	43	87	89	33	27	20	5.2	5.8
CFSM	.02	.14	1.88	.91	.93	2.25	1.04	.91	.94	1.20	.34	.09
IN.	.03	.16	2.16	1.05	1.01	2.59	1.16	1.05	1.04	1.38	.39	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	64.2	118	224	222	303	320	283	223	86.9	75.6	70.6	40.2																	
MAX	259	386	765	581	649	812	633	912	423	384	406	261																	
(WY)	1976	1974	1991	1974	1989	1967	1972	1968	1981	1980	1980	1979																	
MIN	.42	.99	20.2	24.0	40.7	53.4	52.9	33.2	2.37	2.40	.72	.38																	
(WY)	1988	1988	1988	1977	1978	1969	1971	1986	1988	1987	1988	1987																	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1965 - 1992	
ANNUAL TOTAL	59990.0		50846.0			
ANNUAL MEAN	164		139		170	
HIGHEST ANNUAL MEAN					256	
LOWEST ANNUAL MEAN					45.4	
HIGHEST DAILY MEAN	2880	Dec 10	2880	Dec 10	6260	May 25 1968
LOWEST DAILY MEAN	1.1	Jun 30	2.1	Oct 31	.18	Sep 29 1987
ANNUAL SEVEN-DAY MINIMUM	1.3	Jun 27	3.0	Oct 23	.21	Sep 23 1987
INSTANTANEOUS PEAK FLOW			3660	Dec 10	8170	May 25 1968
INSTANTANEOUS PEAK STAGE			19.91	Dec 10 a	27.39	May 25 1968
INSTANTANEOUS LOW FLOW			1.6	Oct 31	.17	Sep 28 1987
ANNUAL RUNOFF (CFSM)	1.05		.89		1.09	
ANNUAL RUNOFF (INCHES)	14.31		12.12		14.81	
10 PERCENT EXCEEDS	398		281		378	
50 PERCENT EXCEEDS	25		70		59	
90 PERCENT EXCEEDS	1.9		4.0		4.2	

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.



## SCIOTO RIVER BASIN

## 03219500 SCIOTO RIVER NEAR PROSPECT, OH

LOCATION.--Lat 40°25'10", long 83°11'50", Delaware County, Hydrologic Unit 05060001, on right bank at downstream side of Hoskins Bridge, 1.5 mi upstream from Ottawa Creek, 2.0 mi south of Prospect, and 2.5 mi downstream from Patton Run.

DRAINAGE AREA.--567 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1925 to October 1932, October 1939 to current year. Published as "at Prospect" 1925-32 Gage-height records collected in this vicinity since 1915 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 886.9 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). July 24, 1925, to Oct. 31, 1932, nonrecording gage at site 2.5 mi upstream at datum 4.8 ft higher. Oct. 16 to Dec. 5, 1939, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Jan. 16-20, 24, 27. Records good except for estimated discharges, which are fair. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1951 to 1953. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913, reached a stage of 21.1 ft, discharge, 27,000 ft<sup>3</sup>/s, computed by Franklin County Conservancy District, at site and datum used 1925-32.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	15	15	13	52	77	202	299	774	93	3020	121
2	8.6	16	15	12	59	70	203	273	545	124	3770	91
3	9.6	18	29	14	45	61	200	250	332	158	3220	79
4	9.2	17	38	17	46	55	186	220	244	134	1660	80
5	12	15	28	16	49	51	170	196	201	100	685	81
6	12	13	21	14	57	63	151	172	230	98	435	79
7	8.9	13	19	14	72	134	134	152	339	80	329	74
8	8.4	13	17	14	78	165	121	136	258	64	270	123
9	8.9	13	17	15	72	194	117	131	184	57	237	153
10	12	13	14	17	69	178	111	128	140	49	222	125
11	15	13	13	17	53	202	105	126	115	48	200	145
12	15	12	13	16	52	216	165	117	98	48	162	269
13	12	11	14	15	40	216	205	105	83	1200	156	186
14	11	14	15	72	38	166	172	96	73	2060	135	113
15	12	14	15	126	44	131	142	91	69	3100	126	78
16	15	16	14	110	185	108	127	87	69	4730	145	64
17	15	20	13	92	406	96	146	82	66	5940	118	54
18	14	17	12	75	370	94	660	92	193	6350	99	47
19	14	17	12	63	297	501	1560	95	769	6020	91	47
20	14	34	12	57	422	881	1900	162	900	5390	83	43
21	14	28	11	52	424	987	2190	187	488	4130	73	46
22	26	26	11	44	300	688	2240	140	284	2770	67	81
23	27	23	12	43	223	511	2150	109	200	1850	65	79
24	21	21	15	69	175	455	1940	99	224	1700	62	84
25	16	20	16	102	144	341	1130	106	396	2170	65	80
26	13	17	14	134	120	279	659	225	420	3030	69	68
27	13	15	14	110	105	253	503	187	287	3610	99	59
28	12	14	14	98	92	232	434	137	194	3000	222	51
29	11	14	14	77	88	208	380	109	140	1990	319	43
30	12	14	14	63	---	204	330	113	111	1200	301	39
31	15	---	13	55	---	203	---	292	---	2240	190	---
TOTAL	414.8	506	494	1636	4177	8020	18733	4714	8426	63533	16695	2682
MEAN <sup>1</sup>	13.4	16.9	15.9	52.8	144	259	624	152	281	2049	539	89.4
MAX	27	34	38	134	424	987	2240	299	900	6350	3770	269
MIN	8.2	11	11	12	38	51	105	82	66	48	62	39
CFSM	.02	.03	.03	.09	.25	.46	1.10	.27	.50	3.61	.95	.16
IN.	.03	.03	.03	.11	.27	.53	1.23	.31	.55	4.17	1.10	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1992, BY WATER YEAR (WY)

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	124	230	483	687	799	1007	866	478	386	260	115	103																																																							
MAX	1643	2023	2451	3305	2166	3008	2771	1429	1915	2049	606	1651																																																							
(WY)	1927	1973	1991	1950	1975	1978	1957	1989	1947	1992	1958	1926																																																							
MIN	10.9	13.8	14.9	15.1	30.8	135	97.0	78.3	32.5	19.4	11.7	7.98																																																							
(WY)	1945	1931	1964	1945	1964	1941	1946	1955	1988	1952	1932	1941																																																							

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1926 - 1992
ANNUAL TOTAL	126191.9	130030.8	
ANNUAL MEAN	346	355	460
HIGHEST ANNUAL MEAN			833
LOWEST ANNUAL MEAN			127
HIGHEST DAILY MEAN	8280	Jan 1	6350
LOWEST DAILY MEAN	8.2	Oct 1	8.2
ANNUAL SEVEN-DAY MINIMUM	8.7	Sep 28	9.8
INSTANTANEOUS PEAK FLOW			6440
INSTANTANEOUS PEAK STAGE			12.16
INSTANTANEOUS LOW FLOW			8.2
ANNUAL RUNOFF (CFSM)	.61	.63	.81
ANNUAL RUNOFF (INCHES)	8.28	8.53	11.02
10 PERCENT EXCEEDS	967	686	1250
50 PERCENT EXCEEDS	38	92	125
90 PERCENT EXCEEDS	12	13	19

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

03219590 BOKES CREEK NEAR WARRENSBURG, OH

LOCATION.--Lat 40°19'20", long 83°10'30", Delaware County, Hydrologic Unit 05060001, on right bank at downstream side of bridge on State Highway 257, 3.4 mi downstream from Fulton Creek, 0.7 mi upstream from Moors Run, and 1.2 mi north of Warrensburg.

DRAINAGE AREA.--83.2 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 870 ft above National Geodetic Vertical Datum of 1929 from topographic map.

REMARKS.--Estimated daily discharges: Jan. 20-31, Feb. 1-14. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.91	2.6	2.6	40	36	149	9.2	111	8.6
2	.00	.00	.00	.90	2.6	2.3	31	30	65	7.2	72	6.1
3	.00	.00	.00	1.0	2.6	2.5	35	25	39	19	47	5.1
4	.00	.00	.00	1.0	2.6	2.2	32	22	27	22	32	4.1
5	.00	.00	.00	1.1	2.7	2.1	33	21	21	10	23	3.2
6	.00	.00	.00	1.0	3.1	5.5	30	18	35	6.3	18	2.7
7	.00	.00	.00	.97	3.5	15	11	15	30	4.4	14	2.3
8	.00	.00	.00	.92	3.9	37	9.7	13	24	9.0	32	2.1
9	.00	.00	.00	.93	4.5	25	8.8	12	20	6.0	19	1.9
10	.00	.00	.00	.95	3.4	18	8.2	11	15	3.9	13	1.7
11	.00	.00	.00	.95	3.1	25	8.0	10	11	3.0	11	1.7
12	.00	.00	.00	.95	3.0	24	7.3	10	8.6	2.8	9.5	1.6
13	.00	.00	.00	.96	2.9	15	6.0	9.6	7.4	788	7.7	1.4
14	.00	.00	.00	3.5	2.9	12	5.6	8.5	6.1	1830	6.5	1.2
15	.00	.00	.00	2.9	3.9	9.7	5.3	8.0	5.1	2140	6.4	1.1
16	.00	.00	.00	2.0	5.6	7.8	5.5	8.0	40	1240	9.3	1.0
17	.00	.00	.00	1.8	6.4	6.7	42	8.0	27	1830	6.7	.97
18	.00	.00	.00	5.0	21	11	72	8.5	21	1900	5.7	1.0
19	.00	.00	.00	5.5	21	57	294	8.5	357	1190	5.3	1.4
20	.00	.00	.00	3.1	18	31	222	21	238	295	4.9	1.1
21	.00	.00	.00	2.7	40	30	348	27	72	218	4.2	1.2
22	.00	.00	.20	2.4	26	29	216	16	40	132	3.7	7.8
23	.00	.00	.65	2.3	14	33	130	12	32	89	3.4	5.1
24	.00	.00	.87	2.8	8.0	34	140	13	25	94	3.2	3.5
25	.00	.00	.90	3.5	5.7	29	59	25	19	418	3.1	2.0
26	.00	.00	.90	4.1	4.8	43	30	44	24	576	2.8	1.7
27	.00	.00	.85	4.5	4.1	36	38	35	22	575	3.5	1.5
28	.00	.00	.85	3.1	3.4	32	50	25	15	227	5.2	1.2
29	.00	.00	.92	2.7	2.9	29	59	17	12	106	7.0	.93
30	.00	.00	.95	2.7	---	31	65	25	8.9	68	22	.79
31	.00	---	.95	2.6	---	40	---	156	---	57	13	---
TOTAL	0.00	0.00	8.04	69.74	228.2	677.4	2041.4	698.1	1416.1	13875.8	525.1	75.99
MEAN	.000	.000	.26	2.25	7.87	21.9	68.0	22.5	47.2	448	16.9	2.53
MAX	.00	.00	.95	5.5	40	57	348	156	357	2140	111	8.6
MIN	.00	.00	.00	.90	2.6	2.1	5.3	8.0	5.1	2.8	2.8	.79
CFSM	.00	.00	.00	.03	.09	.26	.82	.27	.57	5.38	.20	.03
IN.	.00	.00	.00	.03	.10	.30	.91	.31	.63	6.20	.23	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1982	20.8	129	1987	.000	1983
1983	65.0	195	1988	.000	1992
1984	118	469	1991	.26	1992
1985	60.6	166	1991	2.88	1992
1986	124	226	1990	8.39	1992
1987	99.9	270	1984	20.4	1983
1988	105	173	1989	34.0	1986
1989	88.0	263	1989	9.90	1988
1990	52.7	139	1983	.81	1988
1991	99.6	448	1992	1.27	1991
1992	4.21	16.9	1992	.002	1991
1993	10.7	98.5	1986	.000	1982

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1982 - 1992

ANNUAL TOTAL	16149.32	19615.87	
ANNUAL MEAN	44.2	53.6	71.6
HIGHEST ANNUAL MEAN			96.5
LOWEST ANNUAL MEAN			28.7
HIGHEST DAILY MEAN	1120	Jan 1	2190
LOWEST DAILY MEAN	.00	Jul 27	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 27	.00
INSTANTANEOUS PEAK FLOW			2660
INSTANTANEOUS PEAK STAGE			11.77
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	.53		.64
ANNUAL RUNOFF (INCHES)	7.22		8.77
10 PERCENT EXCEEDS	104		58
50 PERCENT EXCEEDS	1.8		5.1
90 PERCENT EXCEEDS	.00		.00

a Peaks above base in shown Table of discharges and stages at continuous-record surface-water-discharge stations.



03221000 SCIOTO RIVER BELOW O'SHAUGHNESSY DAM, NEAR DUBLIN, OH

LOCATION.--Lat 40°08'36", long 83°07'14", Delaware County, Hydrologic Unit 05060001, on left bank, 0.2 mi north of county line, 0.8 mi downstream from O'Shaughnessy Dam, and 3.0 mi north of Dublin.

DRAINAGE AREA.--980 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1921 to current year.

REVISED RECORDS.--WSP 803: 1924-35. WSP 1725: 1924. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 775.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 26, 1921, nonrecording gage at site 0.8 mi upstream at same datum. Aug. 26, 1921, to Oct. 13, 1924, nonrecording gage at site 100 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1924 by O'Shaughnessy Reservoir 0.8 mi upstream (see station 03220500). Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 24.6 ft, discharge, 74,500 ft<sup>3</sup>/s at Griggs Dam, 9 mi downstream from gage, computed by C.E. Sherman, Ohio State University.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	41	34	43	26	44	646	568	1190	31	3230	518
2	20	18	18	44	27	271	160	663	993	60	4000	278
3	17	17	21	91	28	292	276	469	901	212	3820	43
4	29	17	15	56	28	24	392	251	296	235	2450	193
5	52	17	20	38	29	26	360	818	311	196	1150	51
6	52	32	16	18	30	194	284	71	654	170	699	43
7	51	58	16	16	31	276	296	26	664	133	531	53
8	50	55	16	16	32	336	285	364	666	122	612	384
9	57	57	16	16	42	411	281	383	547	112	730	182
10	56	57	16	16	61	834	265	128	221	109	665	44
11	37	46	16	16	324	124	284	360	278	111	230	257
12	23	16	15	56	209	435	288	59	166	121	322	83
13	23	14	52	69	34	369	279	40	141	5180	120	153
14	30	15	19	78	34	283	107	354	26	7940	146	195
15	31	42	18	31	36	282	368	206	60	8430	561	358
16	24	55	18	17	35	271	384	29	160	7380	162	324
17	16	53	17	15	288	113	276	52	422	11400	45	46
18	16	51	17	15	664	157	1590	437	195	13000	140	47
19	17	50	16	15	551	1690	3360	213	904	9080	56	43
20	18	44	16	16	505	1780	3000	17	1640	7230	230	42
21	18	15	15	16	746	1570	4880	254	888	6510	360	44
22	20	27	15	17	417	1210	4670	242	590	4260	42	363
23	55	49	16	18	203	862	3540	539	479	2760	42	129
24	56	49	15	20	294	753	2770	94	527	2250	42	45
25	56	49	15	19	500	908	1730	122	407	3240	286	49
26	56	44	14	19	326	660	1060	380	482	4390	152	84
27	56	48	14	20	21	530	1160	521	494	5780	55	107
28	56	48	14	22	31	529	765	538	467	4180	323	103
29	79	47	15	24	36	530	690	179	326	2890	361	88
30	63	47	14	25	---	368	678	449	166	1900	270	61
31	65	---	14	25	---	144	---	332	---	2160	368	---
TOTAL	1250	1178	553	907	5588	16276	35124	9158	15261	111572	22200	4410
MEAN	40.3	39.3	17.8	29.3	193	525	1171	295	509	3599	716	147
MAX	79	58	52	91	746	1780	4880	818	1640	13000	4000	518
MIN	16	14	14	15	21	24	107	17	26	31	42	42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1992, BY WATER YEAR (WY)

	186	388	818	1241	1425	1785	1499	846	661	413	221	158
MEAN	186	388	818	1241	1425	1785	1499	846	661	413	221	158
MAX	2626	3426	4794	6397	4072	5231	4706	2669	3407	3599	1362	2285
(WY)	1927	1973	1991	1937	1975	1963	1957	1933	1947	1992	1958	1926
MIN	28.2	15.1	13.0	29.3	30.9	249	152	46.4	57.8	37.2	29.4	25.6
(WY)	1922	1954	1953	1992	1964	1941	1946	1925	1955	1921	1921	1965

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1921 - 1992	
ANNUAL TOTAL	225602		223477			
ANNUAL MEAN	618		611		801	
HIGHEST ANNUAL MEAN					1458	
LOWEST ANNUAL MEAN					190	
HIGHEST DAILY MEAN	12500		13000		42900	
LOWEST DAILY MEAN	14		14		.40	
ANNUAL SEVEN-DAY MINIMUM	14		14		1.1	
INSTANTANEOUS PEAK FLOW			13700		42900	
INSTANTANEOUS PEAK STAGE			11.76		22.04	
INSTANTANEOUS LOW FLOW			14		14	
10 PERCENT EXCEEDS	2030		1200		2180	
50 PERCENT EXCEEDS	57		112		194	
90 PERCENT EXCEEDS	18		16		42	





## SCIOTO RIVER BASIN

## 03227500 SCIOTO RIVER AT COLUMBUS, OH

LOCATION.--Lat 39°54'34", long 83°00'33", Franklin County, Hydrologic Unit 05060001, on right bank at sewage-treatment plant of city of Columbus, 0.4 mi downstream from bridge on Frank Road, 2.8 mi upstream from Scioto Big Run, and 5 mi downstream from Olentangy River.

DRAINAGE AREA.--1,629 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 743: 1927(M). WSP 803: 1922-24, 1926-30, 1932-33. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 680.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1924, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Feb. 15 to Apr. 1. Records fair except those for periods of estimated record which are poor. Flow regulated by Griggs Reservoir 10.4 mi upstream (see station 03221500), O'Shaughnessy Reservoir 20.4 mi upstream (see station 03220500), and Delaware Lake 35 mi upstream from station. Records include sewage return flow from Frank Road Treatment Plant. Shadeville Treatment Plant flow enters downstream. Water supply for city of Columbus is obtained from Scioto River downstream from Griggs Dam and Big Walnut Creek downstream from Central College. For statement on diversions from Big Walnut Creek, see REMARKS for station 03229500. Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 25.9 ft, discharge, 138,000 ft<sup>3</sup>/s, estimated by Franklin County Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	121	149	136	255	220	1500	1280	1250	307	5040	577
2	131	120	249	130	192	210	878	984	1500	395	5410	696
3	126	111	1330	138	179	200	392	1010	1210	262	4790	386
4	129	120	301	124	169	190	530	837	1080	428	3720	265
5	138	134	189	116	157	200	556	987	503	383	2060	287
6	137	135	149	114	175	260	493	980	1300	379	1400	247
7	122	128	139	112	221	500	452	381	1060	337	851	229
8	136	127	134	115	289	1000	433	357	1180	323	1070	277
9	135	126	143	112	189	1400	479	865	895	241	1440	547
10	256	125	128	111	169	1200	441	616	665	212	1100	303
11	215	126	124	111	238	1100	446	354	355	255	1070	215
12	184	129	123	111	548	1000	428	584	486	391	433	317
13	153	136	295	109	298	800	401	320	262	11000	585	205
14	148	124	286	1030	254	600	411	299	243	10700	465	295
15	231	112	137	406	260	540	497	540	186	11800	588	346
16	177	111	116	193	300	480	900	319	197	10500	715	460
17	162	110	112	397	400	450	1700	221	322	15900	330	315
18	144	108	118	471	410	1000	2170	267	1220	15700	347	184
19	149	113	108	353	380	2500	4710	690	1220	12100	344	273
20	148	122	108	371	390	4000	5380	286	2620	11000	261	205
21	153	121	113	414	420	2100	6700	263	1820	12000	466	343
22	149	125	111	433	380	1500	6520	556	1080	9130	443	963
23	128	115	314	609	350	1100	5720	323	788	7770	261	913
24	125	110	188	476	310	1000	5210	1380	783	4970	231	414
25	153	107	142	314	280	840	3250	396	783	6330	200	371
26	133	106	125	263	270	760	2000	421	881	7460	357	278
27	139	106	130	270	250	760	2410	716	784	8050	552	250
28	138	154	125	467	240	740	1420	775	682	7500	1440	256
29	132	140	136	572	230	660	1620	599	682	6740	1020	260
30	132	135	156	472	---	800	1070	1310	482	3450	642	247
31	121	---	146	391	---	2500	---	875	---	3900	643	---
TOTAL	4658	3657	6124	9441	8203	30610	59117	19791	26519	179913	38274	10924
MEAN	150	122	198	305	283	987	1971	638	884	5804	1235	364
MAX	256	154	1330	1030	548	4000	6700	1380	2620	15900	5410	963
MIN	121	106	108	109	157	190	392	221	186	212	200	184

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1992, BY WATER YEAR (WY)

	373	745	1465	2110	2397	2982	2455	1514	1208	775	449	348
MEAN	373	745	1465	2110	2397	2982	2455	1514	1208	775	449	348
MAX	4633	5490	6978	10510	5993	8373	6865	4608	5866	5804	2191	3883
(WY)	1927	1973	1991	1937	1975	1963	1964	1933	1947	1992	1980	1926
MIN	60.5	71.7	71.1	96.1	110	493	322	132	97.6	85.5	82.0	66.4
(WY)	1922	1923	1935	1945	1934	1941	1946	1934	1925	1921	1930	1924

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1921 - 1992	
ANNUAL TOTAL	410757		397231			
ANNUAL MEAN	1125		1085		1398	
HIGHEST ANNUAL MEAN					2514	
LOWEST ANNUAL MEAN					305	
HIGHEST DAILY MEAN	14500		15900		48200	
LOWEST DAILY MEAN	103		106		47	
ANNUAL SEVEN-DAY MINIMUM	109		112		53	
INSTANTANEOUS PEAK FLOW			20200		68200	
INSTANTANEOUS PEAK STAGE			20.08		27.22	
INSTANTANEOUS LOW FLOW			106		47	
10 PERCENT EXCEEDS	3570		2120		3770	
50 PERCENT EXCEEDS	203		348		448	
90 PERCENT EXCEEDS	120		124		115	

03228300 BIG WALNUT CREEK AT SUNBURY, OH

LOCATION.--Lat 40°14'10", long 82°51'05", Delaware County, Hydrologic Unit 05060001, on left bank 200 ft downstream from bridge on State Highway 37, 0.1 mi downstream from Rattlesnake Creek, 0.6 mi east of Sunbury, and 0.9 mi upstream from Prairie Run.

DRAINAGE AREA.--101 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 945 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 6-12, 16-Jan. 13, 17-19, Feb. 4-13. Records good except for estimated daily discharges which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.30	.75	19	20	103	54	48	5.5	98	24
2	.01	.00	.73	.72	22	19	80	48	32	3.4	60	17
3	.01	.00	1.8	.70	17	18	64	67	23	1.6	42	15
4	.01	.00	.58	.68	15	16	55	55	18	1.0	34	12
5	.01	.00	.45	.66	14	13	48	41	16	3.5	26	8.5
6	.00	.00	.40	.65	13	20	39	30	14	78	18	6.5
7	.00	.00	.36	.64	12	92	38	23	13	35	12	5.6
8	.00	.00	.34	.64	11	184	37	21	14	14	13	9.3
9	.01	.00	.32	.63	11	113	34	26	12	8.7	33	11
10	.00	.00	.31	.62	10	99	32	25	9.5	6.7	31	11
11	.00	.00	.35	.62	10	151	30	19	6.9	5.4	19	12
12	.00	.00	.45	.64	9.7	84	30	14	4.4	6.1	14	11
13	.00	.00	1.1	.73	9.5	57	29	11	1.8	593	13	7.8
14	.00	.00	.94	3.5	12	44	27	9.6	1.1	516	9.0	6.1
15	.00	.00	.73	48	23	37	23	12	2.6	470	7.5	4.5
16	.00	.00	.60	19	341	31	21	10	4.8	387	6.8	1.6
17	.00	.00	.54	9.0	143	30	178	9.4	9.7	1620	5.4	.77
18	.00	.00	.50	5.0	83	40	512	87	12	1000	3.0	3.2
19	.00	.02	.47	3.3	102	828	540	72	151	321	4.9	45
20	.00	.18	.46	2.7	107	354	234	41	71	363	4.0	35
21	.00	.26	.54	2.5	81	199	223	26	37	1410	3.1	40
22	.00	.22	.66	2.7	57	153	275	16	20	422	2.6	867
23	.00	.14	.76	14	45	163	165	12	11	221	.98	265
24	.00	.09	1.0	151	37	100	113	20	9.1	433	.49	99
25	.00	.05	1.5	82	31	75	100	25	14	341	.44	55
26	.00	.01	1.5	47	28	198	104	17	47	991	.53	38
27	.00	.00	1.1	35	26	211	103	13	26	870	165	29
28	.00	.06	.96	24	23	132	74	11	17	226	584	23
29	.00	M.22	.90	18	21	92	56	10	11	116	186	17
30	.00	.28	.84	16	---	103	51	28	7.3	177	68	12
31	.00	---	.79	17	---	150	---	75	---	140	38	---
TOTAL	0.06	1.53	22.28	508.38	1333.2	3826	3418	928.0	664.2	10785.9	1502.74	1691.87
MEAN	.002	.051	.72	16.4	46.0	123	114	29.9	22.1	348	48.5	56.4
MAX	.01	.28	1.8	151	341	828	540	87	151	1620	584	867
MIN	.00	.00	.30	.62	9.5	13	21	9.4	1.1	1.0	.44	.77
CFSM	.00	.00	.01	.16	.46	1.22	1.13	.30	.22	3.44	.48	.56
IN.	.00	.00	.01	.19	.49	1.41	1.26	.34	.24	3.97	.55	.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992	1989	1990	1991	1992	1989	1990	1991	1992
MEAN	21.9	57.1	179	127	206	156	177	172	145	161	17.7	17.9
MAX	81.2	150	585	192	424	251	270	342	338	348	48.5	56.4
(WY)	1991	1989	1991	1989	1990	1989	1989	1990	1989	1992	1992	1992
MIN	.002	.051	.90	16.9	47.3	46.0	114	21.8	2.88	.15	.007	.006
(WY)	1992	1992	1992	1992	1992	1990	1992	1991	1991	1991	1991	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	23586.43	24682.16	
ANNUAL MEAN	64.6	67.4	119
HIGHEST ANNUAL MEAN			147
LOWEST ANNUAL MEAN			67.7
HIGHEST DAILY MEAN	1390	1620	3340
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		2170	5690
INSTANTANEOUS PEAK STAGE		8.97	11.86
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (CFSM)	.64	.67	1.18
ANNUAL RUNOFF (INCHES)	8.69	9.09	16.05
10 PERCENT EXCEEDS	162	164	291
50 PERCENT EXCEEDS	.61	13	29
90 PERCENT EXCEEDS	.00	.00	.28

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.



03228805 ALUM CREEK AT AFRICA, OH

LOCATION.--Lat 40°11'00", long 82°57'47", in SE 1/4 sec. 1, T.3 N., R.18 W., Delaware County, Hydrologic Unit 05060001, on right bank 400 ft upstream of bridge on Lewis Center Road, 1,200 ft downstream from outlet of Alum Creek Dam, 0.3 mi west of Africa, 2.8 mi upstream from Westerville Reservoir outlet, and 4.2 mi northwest of Westerville.

DRAINAGE AREA.--122 mi<sup>2</sup>.

PERIOD OF RECORD.--Water year 1962 (occasional low-flow measurements) June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 822.00 ft above National Geodetic Vertical Datum of 1929. (Levels by U.S. Army Corps of Engineers). July 9, 1974 to Sept. 30, 1985, at datum 22.00 ft lower. Oct. 17, 1973 to July 9, 1974 nonrecording gage at bridge 400 ft downstream at datum 22.00 ft lower. Prior to Oct. 17, 1973 water-stage recorder 600 ft downstream at datum 4.63 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Alum Creek Lake since August 1973. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 5, 1963 reached a stage of 14.2 ft, from floodmarks, discharge, 6,460 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	12	8.3	7.9	6.5	7.5	6.7	6.1	15	12	12	3.6
2	7.0	12	9.0	7.6	6.4	7.5	6.7	6.0	13	11	12	4.4
3	7.1	12	9.2	7.5	6.4	7.5	6.4	6.7	13	11	12	5.4
4	7.1	12	8.7	7.5	6.6	7.1	5.9	6.3	11	11	12	5.7
5	7.1	12	8.7	7.5	6.7	8.2	5.7	5.7	11	11	12	6.2
6	7.1	12	8.7	7.1	6.7	7.3	5.7	5.4	11	11	12	6.4
7	7.1	12	8.7	7.1	6.7	5.7	5.7	5.3	11	11	12	7.0
8	7.1	11	8.7	7.1	6.7	5.7	5.8	6.0	11	11	12	8.0
9	6.9	11	8.7	7.1	6.7	5.6	6.1	8.7	11	11	12	7.7
10	6.7	11	8.7	7.1	6.7	6.4	6.4	8.7	11	11	12	7.8
11	6.8	11	8.7	7.1	6.7	6.5	6.4	8.5	11	11	12	7.9
12	6.7	8.6	8.7	7.1	6.7	6.1	6.4	7.5	11	14	12	7.9
13	6.7	7.5	8.7	7.1	7.5	5.8	7.1	7.3	11	15	12	7.9
14	6.7	7.5	8.7	8.2	7.9	5.3	6.7	6.7	11	12	12	7.9
15	8.4	7.5	8.7	5.5	8.2	5.3	6.7	6.4	11	12	12	7.9
16	9.2	7.9	8.7	5.4	8.0	5.4	6.8	6.4	11	12	12	7.9
17	9.2	7.9	8.7	6.8	7.9	5.5	8.2	6.2	11	15	12	7.9
18	9.2	7.9	8.7	7.7	7.9	8.6	7.4	5.9	11	12	12	8.0
19	9.2	7.9	8.7	7.4	7.9	9.4	7.5	6.4	9.6	12	12	8.3
20	9.3	7.9	8.6	5.7	7.9	8.6	6.8	5.4	9.6	13	13	8.3
21	9.8	7.9	8.3	5.8	7.9	8.3	6.7	5.6	9.6	13	13	8.4
22	10	7.9	8.3	6.5	7.9	8.3	6.1	8.3	9.6	13	13	8.7
23	11	7.9	8.3	8.1	7.9	7.8	5.7	9.0	10	13	13	9.0
24	11	7.9	8.3	7.9	7.9	7.5	5.7	7.9	11	13	1.8	9.2
25	9.6	7.9	8.3	7.9	7.9	7.5	5.0	10	11	13	.00	9.2
26	8.7	7.9	8.3	7.9	7.5	7.5	4.6	9.6	9.6	12	.37	9.2
27	8.6	7.9	8.3	7.9	7.5	7.1	6.4	11	8.3	12	8.3	9.2
28	10	7.9	7.5	7.9	7.5	7.0	6.4	11	8.3	12	4.9	9.3
29	12	7.9	7.5	7.9	7.5	6.7	6.2	11	9.3	12	2.8	9.6
30	12	8.1	7.8	7.7	---	6.7	6.0	11	9.6	12	4.6	9.6
31	12	---	7.9	6.8	---	6.7	---	11	---	12	5.0	---
TOTAL	266.4	277.8	263.1	223.8	212.2	216.1	189.9	237.0	321.5	376	307.77	233.5
MEAN	8.59	9.26	8.49	7.22	7.32	6.97	6.33	7.65	10.7	12.1	9.93	7.78
MAX	12	12	9.2	8.2	8.2	9.4	8.2	11	15	15	13	9.6
MIN	6.7	7.5	7.5	5.4	6.4	5.3	4.6	5.3	8.3	11	.00	3.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	59.6	113	162	116	180	164	112	96.5	81.2	57.4	42.1	70.1							
MAX	309	375	460	407	464	514	358	361	293	364	570	618							
(WY)	1987	1980	1991	1991	1990	1979	1979	1983	1990	1987	1980	1980							
MIN	3.85	5.39	6.15	1.50	5.48	5.02	3.46	3.32	3.61	3.05	3.31	3.53							
(WY)	1974	1989	1976	1976	1981	1987	1981	1976	1976	1976	1981	1981							

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1974 - 1992	
ANNUAL TOTAL	28101.6		3125.07			
ANNUAL MEAN	77.0		8.54		104	
HIGHEST ANNUAL MEAN					243	
LOWEST ANNUAL MEAN					8.76	
HIGHEST DAILY MEAN	1640	Jan 4	15	Jun 1	1980	Nov 29 1979
LOWEST DAILY MEAN	5.2	Jul 15	.00	Aug 25	.00	Aug 25 1992
ANNUAL SEVEN-DAY MINIMUM	6.6	Sep 9	3.3	Aug 24	1.5	Jun 11 1976
INSTANTANEOUS PEAK FLOW			40	Aug 24	2310	Sep 19 1979
INSTANTANEOUS PEAK STAGE			2.13	Aug 24	27.74	Sep 19 1979
INSTANTANEOUS LOW FLOW			.00	Aug 25	.00	Aug 25 1992
10 PERCENT EXCEEDS	176		12		286	
50 PERCENT EXCEEDS	10		7.9		14	
90 PERCENT EXCEEDS	7.1		5.9		5.1	

## SCIOTO RIVER BASIN

## 03229000 ALUM CREEK AT COLUMBUS, OH

LOCATION.--Lat 39°56'42", long 82°56'28", in NW 1/4 sec. 24, T.5 N., R.22 W., Franklin County, Hydrologic Unit 05060001, on left bank 0.2 mi downstream from Livingston Avenue bridge in Columbus, and 6 mi upstream from mouth.  
 DRAINAGE AREA.--189 mi<sup>2</sup>.  
 PERIOD OF RECORD.--July 1923 to December 1935, January 1938 to current year.  
 REVISED RECORDS.--WSP 758: 1933. WSP 1305: 1928(M). WSP 1908: Drainage area.  
 GAGE.--Water-stage recorder. Datum of gage is 733.69 ft above National Geodetic Vertical Datum of 1929.  
 REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Alum Creek Lake 19 mi upstream, since Aug. 1973. Water-quality data collected at this site 1960 to 1977. Sediment data collected 1960 to 1965. U.S. Army Corps of Engineers satellite telemeter at station.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 19.59 ft (from high-water mark in well), from rating curve extended above 17,000 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; no flow Sept. 21-29, 1959.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	38	71	20	23	15	68	43	34	40	54	18
2	25	42	137	17	21	14	57	30	27	86	39	15
3	23	44	470	18	19	14	48	38	23	35	34	15
4	22	41	60	20	18	14	41	35	20	44	33	32
5	22	38	34	19	18	14	38	28	59	21	29	20
6	22	37	23	16	16	95	34	23	206	14	27	14
7	21	36	18	15	15	72	31	21	55	12	25	14
8	20	41	16	15	15	87	29	19	43	11	169	61
9	20	34	22	14	13	40	43	31	32	19	103	38
10	107	34	20	14	12	69	50	33	21	15	46	34
11	93	33	17	14	12	68	47	24	17	25	73	37
12	78	35	15	14	12	42	41	20	15	55	47	19
13	68	48	109	14	23	30	32	18	13	3190	29	15
14	58	37	94	256	50	24	28	24	11	252	25	14
15	97	30	33	67	54	20	27	20	11	439	92	14
16	83	30	21	34	87	18	27	15	11	364	54	13
17	66	29	18	25	49	17	415	13	11	1280	31	14
18	57	29	17	21	36	131	307	15	254	399	26	15
19	50	56	16	19	32	506	189	19	171	121	23	113
20	44	60	15	17	29	111	119	14	29	103	23	31
21	40	61	17	16	27	75	229	10	17	327	23	151
22	36	53	20	19	23	62	183	8.6	14	138	21	364
23	34	33	115	189	19	55	74	36	12	101	19	62
24	33	29	56	112	18	45	52	254	34	74	17	32
25	33	28	29	49	18	38	43	36	24	69	19	20
26	39	26	21	36	17	93	40	19	19	99	20	15
27	38	26	18	30	16	78	58	15	14	75	232	14
28	37	85	17	26	15	64	45	13	12	48	448	13
29	36	68	18	24	15	50	32	19	9.6	114	67	12
30	36	70	36	23	---	99	39	282	9.1	216	34	11
31	36	---	27	23	---	95	---	58	---	88	23	---
TOTAL	1400	1251	1600	1196	722	2155	2466	1233.6	1227.7	7874	1905	1240
MEAN	45.2	41.7	51.6	38.6	24.9	69.5	82.2	39.8	40.9	254	61.5	41.3
MAX	107	85	470	256	87	506	415	282	254	3190	448	364
MIN	20	26	15	14	12	14	27	8.6	9.1	11	17	11

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

MEAN	112	186	261	198	306	290	226	189	174	133	103	126
MAX	536	637	780	505	784	662	550	607	602	532	808	738
(WY)	1987	1986	1991	1991	1990	1984	1979	1983	1990	1990	1980	1980
MIN	15.7	25.8	32.8	27.2	24.9	38.5	29.9	28.7	18.8	11.4	11.2	14.8
(WY)	1988	1976	1988	1981	1992	1983	1976	1976	1988	1982	1982	1985

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1974 - 1992	
ANNUAL TOTAL	49881.8		24270.3			
ANNUAL MEAN	137		66.3		191	
HIGHEST ANNUAL MEAN					359	
LOWEST ANNUAL MEAN					66.3	
HIGHEST DAILY MEAN	1610		3190		6840	
LOWEST DAILY MEAN	1.6		8.6		1.5	
ANNUAL SEVEN-DAY MINIMUM	2.4		13		2.4	
INSTANTANEOUS PEAK FLOW			7140		8600	
INSTANTANEOUS PEAK STAGE			11.23		12.50	
INSTANTANEOUS LOW FLOW			8.0		1.5	
10 PERCENT EXCEEDS	407		111		523	
50 PERCENT EXCEEDS	47		31		62	
90 PERCENT EXCEEDS	6.1		14		15	

03229500 BIG WALNUT CREEK AT REES, OH

LOCATION.--Lat 39°51'24", long 82°57'26", in NE 1/4 sec. 26, T.4 N., R.22 W., Franklin County, Hydrologic Unit 05060001, on right bank at downstream side of bridge on Reese Road, 0.5 mi southwest of Rees, 4.2 mi downstream from Alum Creek, and 10.5 mi upstream from mouth.  
 DRAINAGE AREA.--544 mi<sup>2</sup>.  
 PERIOD OF RECORD.--August 1921 to December 1935, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.  
 REVISED RECORDS.--WSP 1053: 1929, 1933(M), 1945. WSP 1305: 1923(M), 1925-26(M).  
 GAGE.--Water-stage recorder. Datum of gage is 698.20 ft above National Geodetic Vertical Datum of 1929. Aug. 18, 1921, to Oct. 23, 1927, nonrecording gage at site 0.3 mi upstream at datum 2.00 ft higher prior to Oct. 1, 1924, at present datum thereafter.  
 REMARKS.--No estimated daily discharges. Record good. Flow regulated by Hoover Reservoir 26 mi upstream (see station 03228400) and Alum Creek Lake 30 mi upstream since August 1973. Beginning June 15, 1956, diversion at Morse Road Treatment Plant, 21 mi upstream from station, for municipal water supply for the city of Columbus. Water-quality data collected at this site 1964 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,800 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 22.03 ft (from highwater mark in well), from rating curve extended above 13,000 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; minimum, 5 ft<sup>3</sup>/s Sept. 4, 5, 10-12, 1925; minimum daily since 1956, 9.4 ft<sup>3</sup>/s Sept. 13, 1964.  
 EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 20.5 ft, present datum, at site 0.3 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	45	123	64	134	65	292	153	196	50	360	102
2	27	42	94	57	101	60	211	121	135	134	214	90
3	27	41	1460	59	89	59	167	139	107	108	163	103
4	27	38	240	67	85	57	142	119	102	126	149	117
5	30	36	105	55	91	58	134	99	222	78	115	89
6	47	35	77	51	84	376	115	90	325	90	107	76
7	38	35	66	49	76	486	105	83	261	60	102	70
8	34	35	57	49	72	516	101	85	163	50	275	116
9	32	34	62	48	65	236	135	173	125	68	639	123
10	163	32	62	47	56	291	136	114	94	58	197	88
11	175	32	52	49	59	372	124	84	79	70	228	109
12	100	34	49	46	58	195	107	76	71	146	167	75
13	76	47	223	45	97	133	89	79	66	6030	117	65
14	50	48	466	517	155	109	85	83	62	1580	99	64
15	174	38	140	261	208	98	89	71	58	1780	542	61
16	90	36	82	107	381	86	84	62	56	1410	407	61
17	53	33	65	83	194	87	1220	57	56	4920	168	61
18	48	33	59	69	140	257	852	87	528	2110	123	63
19	41	39	56	56	134	1770	909	103	591	711	105	216
20	35	70	51	52	134	518	480	69	166	539	98	110
21	35	112	58	53	121	303	602	56	99	1210	90	84
22	41	76	72	70	100	236	601	53	79	662	84	935
23	44	42	335	383	90	206	351	49	71	395	76	343
24	48	34	245	699	85	159	238	943	141	338	73	140
25	47	32	111	243	82	133	197	242	97	274	71	93
26	51	30	77	159	74	297	196	108	78	504	73	79
27	52	29	65	118	71	337	230	85	68	1590	81	77
28	52	81	61	104	70	233	220	72	58	895	1550	69
29	59	107	71	96	72	167	147	70	51	359	499	61
30	105	108	102	91	---	309	156	1020	49	996	199	57
31	55	---	79	121	---	599	---	430	---	481	127	---
TOTAL	1884	1434	4865	3968	3178	8808	8515	5075	4254	27822	7298	3797
MEAN	60.8	47.8	157	128	110	284	284	164	142	897	235	127
MAX	175	112	1460	699	381	1770	1220	1020	591	6030	1550	935
MIN	27	29	49	45	56	57	84	49	49	50	71	57
(+)	128	114	111	113	113	110	122	133	135	131	130	127

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
MEAN	236	416	591	483	758	769	641	500	455	360	269	267
MAX	951	1398	2110	1215	1747	1688	1467	1489	1501	1313	1566	1814
(WY)	1987	1986	1991	1974	1990	1984	1979	1983	1989	1990	1980	1979
MIN	58.7	47.8	111	115	110	121	130	63.3	64.0	84.7	57.0	57.3
(WY)	1989	1992	1988	1977	1992	1983	1976	1976	1988	1991	1991	1985

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1974 - 1992	
ANNUAL TOTAL	136260		80898			
ANNUAL MEAN	373		221		529 *	
HIGHEST ANNUAL MEAN					740	
LOWEST ANNUAL MEAN					221	
HIGHEST DAILY MEAN	4320	Jan 1	6030	Jul 13	14000	Sep 15 1979
LOWEST DAILY MEAN	24	Aug 29	27	Oct 2	22	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	27	Aug 25	32	Oct 1	25	Jul 4 1988
INSTANTANEOUS PEAK FLOW			10300		21700	
INSTANTANEOUS PEAK STAGE			13.86		17.75	
10 PERCENT EXCEEDS	1090		482		1200	
50 PERCENT EXCEEDS	106		90		186	
90 PERCENT EXCEEDS	33		46		58	

(+) Average diversion by City of Columbus municipal water supply.  
 \* Adjusted for diversion



03230900 DEER CREEK NEAR PANCOASTBURG, OH

LOCATION.--Lat 39°37'14", long 83°12'47", Pickaway County, Hydrologic Unit 05060002, on left bank 200 ft down-stream from bridge on Crownover Mill Road, 1,200 ft downstream from Deer Creek Dam, and 2.8 mi east of Pancoastburg.

DRAINAGE AREA.--277 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1964-66 (Occasional low-flow measurements and annual maximums), July 1966 to current year.

REVISED RECORDS.--WRD Ohio 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 768.00 ft above National Geodetic Vertical Datum of 1929, U.S. Army Corps of Engineers bench mark. Oct. 23, 1963, to June 30, 1966, crest-stage gage at site 200 ft upstream at datum 8.16 ft lower. July 1, 1966 to Sept. 30, 1983 at datum 68.00 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Deer Creek Lake (capacity 26,440 acre-ft) since April 1, 1968. Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft<sup>3</sup>/s (estimated) Mar. 10, 1964, gage height, 12.93 ft, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	146	52	37	76	10	10	116	332	58	232	32
2	16	146	53	31	76	10	10	53	186	44	182	25
3	16	146	61	17	65	10	10	54	185	45	149	25
4	16	145	114	17	49	11	10	78	256	52	109	25
5	17	144	167	17	49	11	9.9	97	241	59	148	25
6	17	143	167	17	49	11	9.9	97	289	59	132	25
7	17	143	166	17	49	11	9.9	97	459	59	103	26
8	17	143	164	23	49	11	9.9	98	454	49	100	26
9	17	142	125	37	49	11	10	183	347	42	92	26
10	17	142	77	37	49	11	10	234	232	42	92	26
11	17	140	77	38	49	11	10	234	165	42	92	26
12	17	155	78	38	49	11	10	264	113	42	93	26
13	17	173	78	38	49	29	11	277	92	148	88	25
14	17	173	77	37	49	55	10	169	92	205	65	25
15	39	147	77	62	49	55	11	100	93	455	72	25
16	118	85	78	85	49	142	11	90	93	421	83	26
17	149	86	77	77	49	184	12	91	96	682	84	26
18	148	85	77	56	31	184	12	92	140	703	74	26
19	146	85	78	57	16	847	88	92	555	9.6	60	26
20	146	85	77	56	16	817	772	92	685	9.3	51	26
21	146	67	76	56	16	272	887	93	398	585	34	26
22	145	54	76	56	16	268	891	93	255	1220	28	26
23	164	53	76	69	16	384	886	93	181	987	28	26
24	184	53	76	93	14	448	716	92	132	634	28	26
25	184	52	76	121	13	410	493	91	102	404	28	26
26	183	52	76	121	13	296	488	77	102	343	27	26
27	181	52	76	109	11	240	356	50	102	349	45	26
28	181	52	76	76	10	211	245	44	92	1300	153	26
29	180	52	76	76	10	211	184	45	73	960	184	26
30	164	52	58	76	---	134	184	165	73	354	125	26
31	146	---	37	76	---	13	---	373	---	315	58	---
TOTAL	2838	3193	2699	1723	1085	5329	6376.6	3824	6615	10676.9	2839	778
MEAN	91.5	106	87.1	55.6	37.4	172	213	123	220	344	91.6	25.9
MAX	184	173	167	121	76	847	891	373	685	1300	232	32
MIN	16	52	37	17	10	10	9.9	44	73	9.3	27	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	134	284	376	302	413	430	269	282	278	156	108	84.8													
MAX	538	1152	1108	903	1133	1262	764	866	1183	713	754	856													
(WY)	1980	1973	1974	1991	1982	1979	1973	1983	1968	1990	1980	1979													
MIN	12.3	37.7	27.0	20.4	37.4	59.1	9.83	7.75	7.69	9.98	11.8	6.31													
(WY)	1969	1978	1988	1977	1992	1983	1971	1976	1976	1988	1988	1968													

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1968 - 1992	
ANNUAL TOTAL	89107.7		47976.5			
ANNUAL MEAN	244		131		259	
HIGHEST ANNUAL MEAN					453	
LOWEST ANNUAL MEAN					102	
HIGHEST DAILY MEAN	2310		1300		2930	
LOWEST DAILY MEAN	9.9		9.3		.00	
ANNUAL SEVEN-DAY MINIMUM	10		9.9		2.4	
INSTANTANEOUS PEAK FLOW			1830		3000	
INSTANTANEOUS PEAK STAGE			5.51		7.06	
INSTANTANEOUS LOW FLOW			9.3		.00	
10 PERCENT EXCEEDS	740		302		695	
50 PERCENT EXCEEDS	87		76		109	
90 PERCENT EXCEEDS	17		13		13	

a Result of dam closure



## 03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-51, 1965-1981, November 1985 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1965 to October 1981, November 1985 to current year.

pH: June 1971 to October 1981, November 1985 to current year.

WATER TEMPERATURES: October 1950 to September 1951, October 1953 to October 1981,

November 1985 to current year.

DISSOLVED OXYGEN: May 1965 to October 1981, November 1985 to current year.

INSTRUMENTATION.--Water-quality monitor. Digital recorder set for one-hour-interval punch since Feb. 1977. Electronic data logger replaced digital recorder since July 12, 1991. Set for one-hour-interval.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,210 micromhos Jan. 13, 1976; minimum, 150 micromhos June 29, 1972.

pH: Maximum, 9.3 units Aug. 24-26, 1981, May 1, 1988; minimum, 6.3 units Mar. 6, 1979.

WATER TEMPERATURES: Maximum, 32.5°C July 17, Aug. 18, 1988; minimum 0.0°C on many days during winters.

DISSOLVED OXYGEN: Maximum, >20.0 mg/L on several days during 1978 thru 1988; minimum, 0.0 mg/L April 27, Aug. 12, Sept. 22, 1966.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1110 microsiemens Mar. 5; minimum, 321 micromhos Dec. 5.

pH: Maximum recorded, 8.9 units June 18, July 2, 4; minimum recorded, 7.4 units Apr. 19, 20.

WATER TEMPERATURES: Maximum, 27.5°C July 10-13; minimum, 0.5°C Jan. 27, Feb. 18-20.

DISSOLVED OXYGEN: Maximum, >20.0 mg/L June 16,17; minimum, 3.2 mg/L July 14.

## SCIOTO RIVER BASIN

## 03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	752	702	631	670	650	665	615	609	612	783	738	760
2	773	662	639	647	593	624	610	570	596	803	780	791
3	783	743	764	590	552	573	576	511	552	818	803	811
4	805	760	781	549	509	531	536	322	424	819	812	817
5	792	749	769	510	502	506	360	321	339	829	818	822
6	746	707	722	531	506	519	385	361	374	830	824	828
7	705	686	695	522	504	516	424	386	403	828	821	825
8	709	672	689	509	494	502	482	426	452	843	816	831
9	736	687	710	492	486	487	512	485	501	862	843	852
10	742	724	733	---	---	---	517	509	512	850	810	834
11	735	714	727	---	---	---	554	512	532	806	790	799
12	711	690	697	---	---	---	836	554	700	801	784	793
13	713	680	696	---	---	---	864	829	849	831	800	817
14	727	690	708	557	552	553	853	804	839	833	780	810
15	685	633	661	585	558	571	872	805	851	837	771	801
16	629	605	614	593	576	587	871	718	803	784	614	660
17	636	610	620	593	561	577	712	625	667	624	602	613
18	620	597	610	631	594	613	620	604	610	655	626	640
19	616	588	609	651	630	642	623	602	611	714	658	689
20	583	547	562	672	649	659	650	619	636	743	717	734
21	563	538	550	679	672	675	678	645	664	738	719	729
22	599	559	579	674	651	662	716	670	691	796	740	766
23	638	599	617	665	645	656	745	718	732	831	798	820
24	673	638	656	642	593	624	781	739	751	828	787	804
25	687	670	678	590	552	571	813	784	800	835	810	824
26	697	681	688	552	535	544	801	716	764	824	746	773
27	684	678	682	535	524	530	713	664	687	764	718	736
28	681	669	676	551	535	543	663	650	655	778	759	767
29	682	663	672	591	551	574	675	661	668	822	781	805
30	685	672	678	615	588	601	702	676	688	934	825	872
31	691	672	682	---	---	---	737	704	719	950	917	938
MONTH	805	538	671	679	486	581	872	321	635	950	602	786
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	922	906	914	880	820	850	697	650	668	813	753	776
2	950	909	927	978	882	927	676	647	660	883	812	843
3	939	916	929	1040	977	1010	691	670	678	877	835	857
4	925	912	919	1100	1030	1060	688	658	671	864	850	852
5	934	896	915	1110	1090	1100	770	689	723	928	841	876
6	939	908	924	1100	1050	1080	833	767	795	870	821	843
7	932	918	925	1050	893	966	882	825	850	903	841	870
8	917	869	899	1020	881	964	919	862	889	889	804	850
9	868	842	856	879	808	858	945	878	913	826	505	646
10	862	831	848	807	755	786	982	944	960	858	513	715
11	865	852	859	831	742	778	966	940	954	843	716	790
12	849	817	832	821	715	761	955	929	942	782	730	751
13	822	806	814	727	702	716	957	920	938	819	779	796
14	851	822	834	727	696	720	956	929	944	---	---	---
15	881	851	866	695	667	685	968	923	942	793	771	781
16	867	815	838	780	694	732	1010	957	980	838	780	804
17	932	805	872	798	777	788	1070	1010	1040	876	814	842
18	975	916	940	785	729	771	1080	753	924	877	842	866
19	973	919	939	721	578	646	751	660	719	840	792	804
20	957	937	950	568	516	536	751	673	707	797	777	781
21	934	896	919	667	559	622	803	755	779	806	773	786
22	890	854	870	694	656	669	799	724	767	---	745	764
23	855	824	839	721	694	707	716	685	699	---	---	---
24	850	820	831	727	697	712	---	---	---	---	---	---
25	882	851	865	716	648	682	709	677	690	---	---	---
26	882	863	878	654	637	646	685	675	679	598	584	593
27	859	827	847	686	649	663	692	682	687	653	592	630
28	889	856	870	746	685	713	722	694	705	694	647	667
29	866	840	852	740	719	729	746	699	718	698	660	686
30	---	---	---	717	708	713	787	745	766	658	619	639
31	---	---	---	709	665	685	---	---	---	626	593	605
MONTH	975	805	882	1110	516	783	1080	647	806	928	505	767

03231500 SCIOTO RIVER AT CHILLCOTHE, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	589	559	570	868	843	854	564	540	552	642	598	615
2	---	---	---	874	859	865	556	527	541	690	642	660
3	668	620	635	874	851	861	565	544	554	704	662	686
4	696	670	685	865	836	858	579	557	568	718	702	711
5	705	692	696	910	834	878	568	527	548	747	712	725
6	690	519	602	894	868	883	601	555	574	795	749	771
7	---	---	---	895	857	885	639	601	617	808	787	797
8	---	---	---	856	843	850	677	636	651	795	767	779
9	---	---	---	860	826	842	678	528	635	777	763	772
10	---	---	---	867	822	851	559	439	488	797	756	780
11	794	670	738	868	837	855	633	562	602	785	749	765
12	806	777	792	859	817	843	678	622	647	745	716	730
13	825	790	807	852	731	833	670	636	654	725	701	713
14	830	801	820	769	368	460	702	663	675	745	716	727
15	830	823	828	475	380	444	706	549	673	733	709	719
16	836	781	817	473	465	468	583	373	491	724	694	714
17	824	783	800	469	405	453	600	592	597	700	680	690
18	832	769	804	404	387	393	653	590	616	752	664	707
19	828	603	699	---	---	---	701	654	677	702	674	690
20	609	596	602	---	---	---	749	701	721	673	649	661
21	646	612	628	---	---	---	778	749	762	676	658	664
22	724	651	695	---	---	---	784	763	774	713	649	688
23	729	698	713	---	---	---	824	785	803	712	615	690
24	752	722	737	---	---	---	846	822	835	602	521	544
25	821	750	783	---	---	---	818	798	808	563	528	544
26	850	818	833	---	---	---	838	814	826	588	555	569
27	847	809	828	---	---	---	859	823	844	643	591	612
28	865	834	849	---	---	---	856	822	795	672	642	654
29	861	838	849	---	---	---	619	452	503	676	650	662
30	865	828	846	522	502	507	560	487	519	701	669	682
31	---	---	---	567	526	552	603	561	579	---	---	---
MONTH	865	519	746	910	368	722	859	373	649	808	521	691
YEAR	1110	321	727									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	8.5	8.3	8.1	8.1	8.1	8.0	7.9	8.0	8.1	8.0	8.1
2	8.5	8.5	8.3	8.3	8.1	8.2	7.9	7.9	7.9	8.1	8.0	8.1
3	8.5	8.2	8.3	8.3	8.2	8.2	7.9	7.9	7.9	8.1	8.0	8.0
4	8.5	8.2	8.4	8.4	8.2	8.3	7.9	7.7	7.8	8.1	8.0	8.0
5	8.5	8.3	8.4	8.4	8.3	8.4	8.0	7.8	7.9	8.1	8.0	8.0
6	8.5	8.2	8.4	8.4	8.3	8.4	8.0	8.0	8.0	8.1	8.0	8.0
7	8.6	8.3	8.4	8.4	8.3	8.3	8.0	8.0	8.0	8.1	8.0	8.0
8	8.6	8.4	8.4	8.4	8.3	8.4	8.0	7.9	8.0	8.2	8.0	8.1
9	8.6	8.3	8.4	---	---	---	8.0	7.9	7.9	8.2	8.0	8.1
10	8.5	8.3	8.4	---	---	---	8.0	7.9	8.0	8.2	8.0	8.1
11	8.3	8.2	8.2	---	---	---	8.0	7.9	8.0	8.2	8.0	8.1
12	8.2	8.1	8.2	---	---	---	8.1	7.9	8.0	8.3	8.1	8.2
13	8.2	8.1	8.2	---	---	---	8.0	7.9	8.0	8.2	8.1	8.1
14	8.3	8.1	8.2	8.3	8.1	8.2	8.0	7.9	8.0	8.2	8.0	8.1
15	8.3	8.1	8.2	8.3	8.1	8.2	8.0	7.9	8.0	8.1	7.9	8.0
16	8.2	8.1	8.2	8.2	8.0	8.1	8.1	7.9	8.0	8.1	7.9	8.0
17	8.3	8.2	8.2	8.3	8.0	8.1	8.1	8.0	8.1	8.1	8.0	8.1
18	8.4	8.2	8.3	8.2	8.1	8.2	8.1	8.1	8.1	8.2	8.1	8.1
19	8.4	8.3	8.3	8.2	8.0	8.1	8.1	8.1	8.1	8.2	8.1	8.1
20	8.4	8.3	8.3	8.1	7.9	8.0	8.1	8.1	8.1	8.1	8.1	8.1
21	8.4	8.3	8.4	8.0	7.9	7.9	8.1	8.1	8.1	8.1	8.1	8.1
22	8.5	8.3	8.4	7.9	7.8	7.9	8.1	8.0	8.1	8.1	8.0	8.1
23	8.4	8.3	8.3	8.0	7.8	7.9	8.1	8.0	8.0	8.0	7.9	8.0
24	8.4	8.2	8.3	8.1	7.9	8.0	8.1	8.0	8.0	8.0	7.9	8.0
25	8.4	8.2	8.3	8.2	8.0	8.0	8.0	8.0	8.0	8.0	7.9	8.0
26	8.4	8.2	8.3	8.2	8.0	8.1	8.1	8.0	8.0	8.0	7.9	8.0
27	8.2	8.0	8.1	8.2	8.1	8.1	8.1	8.0	8.1	8.0	7.9	7.9
28	8.1	8.0	8.0	8.1	8.0	8.1	8.1	8.0	8.1	8.0	7.9	8.0
29	8.1	8.0	8.0	8.1	8.0	8.0	8.1	8.0	8.0	8.0	7.9	7.9
30	8.1	8.0	8.0	8.1	8.0	8.0	8.1	8.0	8.0	7.9	7.9	7.9
31	8.1	8.0	8.1	---	---	---	8.1	8.0	8.0	7.9	7.9	7.9
MONTH	8.6	8.0	8.3	8.4	7.8	8.1	8.1	7.7	8.0	8.3	7.9	8.0



03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	17.0	18.0	15.5	13.5	14.5	9.5	9.0	9.5	6.0	5.5	5.5
2	20.0	17.5	18.5	13.5	10.5	12.0	9.0	8.5	9.0	6.0	5.0	5.5
3	20.0	17.5	19.0	10.5	8.5	9.5	9.0	8.0	8.5	7.0	6.0	6.5
4	20.5	18.0	19.5	8.0	6.0	7.0	8.5	4.5	6.5	7.5	7.0	7.5
5	20.0	17.0	18.5	6.5	5.0	6.0	4.0	3.5	3.5	7.0	7.0	7.0
6	17.0	14.5	15.5	7.5	6.0	6.5	4.0	3.0	3.5	7.0	6.5	6.5
7	14.5	13.5	14.0	6.5	5.5	6.0	6.0	4.0	5.0	6.5	6.0	6.5
8	14.5	12.0	13.0	6.0	5.0	5.5	8.5	6.0	7.0	6.5	5.5	6.0
9	15.5	12.5	14.0	---	---	---	9.0	8.5	9.0	7.5	6.0	7.0
10	15.0	14.0	14.5	---	---	---	8.5	7.5	8.0	7.0	5.5	6.5
11	14.5	14.0	14.5	---	---	---	8.0	6.5	7.5	6.0	5.0	5.5
12	14.0	13.0	13.5	---	---	---	8.5	7.5	8.0	5.5	5.0	5.0
13	14.0	12.5	13.0	---	---	---	10.0	9.0	10.0	6.5	5.5	6.0
14	14.5	12.5	13.5	---	---	---	10.0	8.0	9.5	7.0	5.0	6.0
15	14.0	13.0	13.5	9.0	7.5	8.5	8.0	7.0	7.5	6.0	4.5	5.0
16	13.5	12.0	12.5	10.0	8.5	9.5	7.0	4.5	5.5	5.5	1.5	3.0
17	13.0	11.5	12.0	9.0	7.5	8.5	5.0	4.0	4.5	1.5	1.0	1.5
18	13.5	11.5	12.5	10.5	8.5	9.5	4.0	3.0	3.5	1.0	.5	.5
19	13.5	12.0	13.0	12.0	10.5	11.0	3.0	2.5	2.5	.5	.5	.5
20	12.0	11.0	11.5	13.0	11.5	12.5	3.0	2.0	2.5	1.0	.5	1.0
21	12.0	10.5	11.0	13.5	12.5	13.0	4.0	3.0	3.5	2.0	1.0	1.5
22	13.0	11.0	12.0	12.5	12.0	12.5	4.5	3.5	3.5	3.5	2.0	2.5
23	14.0	12.5	13.0	12.5	11.5	12.0	5.5	4.5	5.0	4.5	3.5	4.0
24	16.0	14.0	15.0	11.0	8.0	9.5	5.5	4.5	5.5	4.5	3.5	4.0
25	17.5	15.5	16.5	7.5	5.5	6.5	6.0	5.5	6.0	4.0	2.0	3.0
26	17.5	16.5	17.0	5.5	4.5	5.0	6.0	5.0	5.5	2.0	1.5	2.0
27	17.0	17.0	17.0	5.0	4.0	4.5	5.0	4.0	4.5	2.5	1.5	2.0
28	17.5	16.5	17.0	6.0	5.0	5.5	5.0	4.0	4.5	3.0	2.5	3.0
29	17.0	16.0	16.5	8.5	6.0	7.5	5.0	5.0	5.0	4.0	3.5	3.5
30	16.5	15.5	16.0	10.0	8.0	9.5	5.0	5.0	5.0	5.0	3.5	4.0
31	16.5	15.5	16.0	---	---	---	5.5	5.0	5.5	5.0	4.5	4.5
MONTH	20.5	10.5	15.0	15.5	4.0	9.0	10.0	2.0	6.0	7.5	.5	4.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.5	8.5	6.0	7.5	8.5	8.0	8.0	16.5	14.0	15.0
2	4.5	3.0	4.0	11.0	8.5	9.5	7.5	7.0	7.5	19.0	16.0	17.0
3	5.0	3.5	4.5	12.5	10.5	11.5	8.0	6.5	7.0	19.0	17.5	18.0
4	5.0	4.5	5.0	13.5	11.5	12.5	7.5	6.5	7.0	18.0	17.0	17.0
5	5.5	4.5	5.0	14.0	12.5	13.5	9.5	6.5	8.0	16.0	15.5	15.5
6	6.0	4.5	5.0	14.0	13.5	13.5	10.5	8.0	9.5	16.0	14.5	15.0
7	5.5	5.0	5.0	14.0	13.5	14.0	13.0	10.0	11.0	17.0	14.0	15.5
8	4.5	3.5	4.5	14.0	13.0	13.5	14.5	12.0	13.5	16.5	15.0	16.0
9	4.0	3.0	3.5	13.0	12.0	13.0	15.5	13.0	14.5	15.5	13.5	14.5
10	4.5	2.5	3.5	13.0	11.0	12.5	16.5	15.0	16.0	17.0	13.0	14.5
11	4.5	4.0	4.5	11.0	8.0	9.5	18.0	15.5	16.5	19.0	16.0	17.0
12	4.0	3.0	3.5	8.0	6.5	7.5	17.5	15.5	16.5	20.5	17.5	19.0
13	4.0	3.5	4.0	6.5	5.5	6.0	15.5	14.0	15.0	21.0	19.0	20.0
14	5.0	4.0	4.5	5.5	5.0	5.0	15.0	13.5	14.0	---	---	---
15	7.0	5.0	6.0	5.5	4.0	5.0	15.0	13.0	14.0	20.0	18.0	19.0
16	6.5	6.0	6.5	7.0	4.5	5.5	17.0	14.5	15.5	21.5	18.5	20.0
17	7.0	6.0	6.5	7.0	6.0	6.5	17.5	16.5	17.0	23.0	20.0	21.0
18	8.0	7.0	7.5	7.0	7.0	7.0	17.0	16.0	16.5	22.0	21.5	21.5
19	8.0	7.5	8.0	6.5	5.5	6.0	16.0	15.5	16.0	21.0	20.0	20.5
20	8.0	6.5	7.5	5.5	4.5	5.0	16.5	15.0	16.0	22.5	21.5	21.5
21	8.0	6.0	7.0	6.5	5.0	5.5	16.5	16.0	16.5	23.5	21.0	22.0
22	8.5	7.0	7.5	6.5	6.0	6.5	16.0	15.0	15.5	23.0	21.0	21.5
23	8.0	7.5	8.0	7.0	5.5	6.0	16.0	14.5	15.5	---	---	---
24	8.0	7.5	8.0	7.5	5.5	6.5	---	---	---	---	---	---
25	8.5	8.0	8.0	7.0	6.5	6.5	16.5	15.0	16.0	---	---	---
26	8.0	7.0	7.5	7.5	6.5	7.0	14.5	13.5	14.0	18.5	17.5	18.0
27	8.5	6.5	7.5	7.5	7.0	7.0	13.5	12.5	13.0	18.5	16.5	17.5
28	9.0	7.5	8.5	8.5	6.5	7.5	14.0	12.0	13.0	19.0	17.0	18.0
29	8.5	7.0	7.5	8.0	7.5	7.5	14.5	12.5	13.5	18.5	16.5	17.5
30	---	---	---	8.0	7.5	7.5	15.0	14.0	14.5	17.0	16.0	16.5
31	---	---	---	9.0	7.0	8.0	---	---	---	16.5	16.0	16.0
MONTH	9.0	2.5	6.0	14.0	4.0	8.5	18.0	6.5	13.5	23.5	13.0	18.0

## SCIOTO RIVER BASIN

## 03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	17.0	15.5	16.5	26.0	23.5	24.5	23.0	21.5	22.0	23.0	21.0	22.0
2	---	---	---	26.5	24.0	25.5	22.5	21.0	22.0	22.5	21.5	22.0
3	20.0	18.0	19.0	26.0	24.5	25.5	23.0	22.0	22.5	22.5	21.5	22.0
4	20.0	19.5	19.5	26.5	24.0	25.0	23.0	21.5	22.5	23.0	21.5	22.0
5	20.0	19.0	19.5	25.5	24.0	25.0	22.5	21.0	22.0	23.5	22.0	22.5
6	21.0	19.0	19.5	25.5	23.5	24.5	23.0	21.0	22.0	24.5	22.5	23.5
7	---	---	---	24.5	23.0	24.0	24.0	22.0	23.0	24.5	23.5	24.0
8	---	---	---	25.0	23.0	24.0	24.0	23.0	23.5	24.5	23.5	24.0
9	---	---	---	26.5	24.0	25.0	24.5	23.0	24.0	25.0	23.0	24.0
10	---	---	---	27.5	25.5	26.5	25.0	23.5	24.0	24.5	23.5	24.0
11	22.5	20.5	21.5	27.5	26.0	26.5	25.5	24.5	25.0	23.0	21.5	22.0
12	23.5	21.0	22.0	27.5	25.5	26.5	25.5	23.5	24.5	22.0	20.0	21.0
13	24.5	22.0	23.0	27.5	25.5	26.5	25.0	23.5	24.0	22.0	20.0	21.0
14	24.0	22.5	23.0	26.0	23.5	24.5	24.0	23.0	23.5	23.0	20.5	21.5
15	24.5	22.5	23.5	24.5	24.5	24.5	23.0	21.0	22.5	23.5	21.5	22.5
16	25.5	22.5	23.5	24.5	24.0	24.0	21.5	20.0	21.0	24.0	22.0	23.0
17	26.0	23.5	25.0	24.5	23.0	24.0	22.0	20.5	21.5	24.0	22.0	23.0
18	25.5	23.5	24.5	23.0	22.5	23.0	23.0	21.0	22.0	24.0	22.5	23.0
19	24.5	22.5	23.0	---	---	---	23.0	21.5	22.5	23.0	21.0	22.0
20	22.0	20.0	21.0	---	---	---	23.5	21.0	22.0	22.0	20.0	21.0
21	20.5	19.5	20.0	---	---	---	24.0	21.5	22.5	22.5	21.0	22.0
22	20.5	19.0	19.5	---	---	---	23.5	22.0	23.0	22.0	21.5	22.0
23	20.0	19.0	19.5	---	---	---	24.0	22.5	23.0	21.5	20.0	20.5
24	21.0	19.0	20.0	---	---	---	25.0	23.0	24.0	20.0	18.5	19.5
25	23.0	20.0	21.5	---	---	---	26.5	24.0	25.0	19.5	17.5	18.5
26	23.5	21.5	22.5	---	---	---	26.0	24.5	25.5	19.5	18.0	18.5
27	23.5	21.5	22.5	---	---	---	26.5	25.0	26.0	21.0	19.0	19.5
28	24.0	21.5	23.0	---	---	---	26.0	23.0	24.5	20.5	18.5	19.5
29	24.5	22.5	23.5	---	---	---	23.0	21.5	22.0	19.5	17.5	18.5
30	25.0	23.5	24.0	23.5	23.0	23.0	22.5	20.5	21.5	17.5	16.0	17.0
31	---	---	---	23.5	22.5	23.0	23.0	21.0	22.0	---	---	---
MONTH	26.0	15.5	21.5	27.5	22.5	24.5	26.5	20.0	23.0	25.0	16.0	21.5
YEAR	27.5	.5	14.0									

## OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	10.7	10.1	7.7	7.9	7.1	7.5	10.1	8.7	9.3	11.5	10.0	10.6
2	11.1	10.5	8.4	8.7	7.3	7.9	9.0	8.7	8.9	11.6	10.2	10.7
3	10.7	8.1	9.1	9.6	8.0	8.8	9.4	8.9	9.2	11.6	10.2	10.6
4	10.9	7.9	9.3	10.2	8.9	9.5	9.4	8.3	8.8	11.0	9.6	10.2
5	9.7	8.0	8.8	10.9	9.5	10.2	10.5	9.4	9.9	10.6	9.3	9.8
6	10.5	7.7	9.0	11.2	10.2	10.6	11.2	10.6	11.0	10.7	9.2	9.7
7	11.3	8.6	9.9	10.9	9.9	10.3	11.1	10.6	10.9	11.0	9.3	9.9
8	12.0	9.3	10.3	11.5	9.9	10.7	10.6	9.8	10.4	12.0	9.5	10.5
9	11.8	9.5	10.5	---	---	---	9.8	9.1	9.5	11.9	10.3	10.8
10	11.0	8.8	9.6	---	---	---	9.9	9.0	9.3	11.6	10.0	10.5
11	10.0	8.2	8.9	---	---	---	10.8	9.2	9.8	12.0	9.7	10.8
12	9.1	8.0	8.5	---	---	---	10.5	9.5	9.8	12.5	10.7	11.3
13	9.5	8.2	8.7	---	---	---	9.9	8.8	9.3	11.7	10.2	10.8
14	9.9	8.5	9.0	13.7	12.0	13.3	9.5	8.7	9.1	11.1	9.9	10.3
15	9.9	8.4	8.9	13.2	11.1	11.9	9.3	8.9	9.1	10.4	9.2	9.9
16	9.6	8.5	9.0	12.1	10.2	10.9	10.1	9.0	9.6	10.5	9.3	10.0
17	9.7	8.8	9.2	12.5	10.1	11.1	10.7	10.2	10.4	11.0	10.2	10.6
18	10.3	9.2	9.6	12.3	10.7	11.3	11.0	10.5	10.7	11.6	10.9	11.3
19	10.1	9.1	9.5	11.3	9.7	10.5	11.2	10.6	10.9	11.5	11.2	11.4
20	10.7	9.1	9.8	10.6	8.8	9.6	11.7	10.9	11.2	11.5	11.0	11.2
21	11.0	9.7	10.2	9.4	8.0	8.6	11.5	11.0	11.2	11.7	11.1	11.4
22	11.3	9.9	10.4	9.1	7.9	8.2	11.5	10.7	11.0	11.5	11.0	11.2
23	10.8	9.5	10.0	9.4	7.9	8.5	11.1	10.2	10.6	11.0	10.1	10.5
24	10.7	9.0	9.6	10.3	8.4	9.0	10.5	10.0	10.3	10.6	10.0	10.3
25	10.2	8.5	9.2	11.2	9.0	9.9	10.2	9.6	9.9	10.2	9.9	10.0
26	9.9	8.1	8.8	12.1	9.7	10.8	10.6	9.7	10.2	10.5	10.1	10.3
27	8.5	7.1	7.8	12.4	10.7	11.4	11.4	10.4	10.9	10.7	10.2	10.5
28	8.1	6.7	7.2	12.2	10.7	11.2	11.5	10.5	11.0	11.0	10.5	10.8
29	8.0	6.6	7.2	12.0	10.5	11.1	11.0	10.3	10.5	10.9	10.5	10.7
30	8.1	6.7	7.2	11.1	9.2	10.2	11.0	10.2	10.5	10.7	10.1	10.5
31	8.2	6.8	7.4	---	---	---	11.0	10.1	10.4	10.4	9.9	10.0
MONTH	12.0	6.6	9.0	13.7	7.1	10.1	11.7	8.3	10.1	12.5	9.2	10.6





03234000 PAINT CREEK NEAR BOURNEVILLE, OH

LOCATION.--Lat 39°15'49", long 83°10'01", Ross County, Hydrologic Unit 05060003, on upstream side of left abutment of highway bridge, 0.2 mi downstream from Sulfur Lick, 1.2 mi southwest of Bourneville, and 1.2 mi upstream from Upper Twin Creek.

DRAINAGE AREA.--807 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1921 to January 1937, January 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Bainbridge" October 1921 to September 1923 and as "near Bainbridge" January 1938 to May 1939.

REVISED RECORDS.--WRD Ohio 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 665.56 ft above National Geodetic Vertical Datum of 1929. See WSP 1725 for history of changes prior to May 3, 1939.

REMARKS.--Estimated daily discharges: Oct. 1-Dec. 6, Dec. 11-12, Mar. 12-23, Apr. 23-24, July 23-30, and Sept. 12-30. Records fair, except for estimated records which are poor. Flow regulated by Paint Creek Lake 17 mi upstream since 1971, capacity 145,000 acre-ft and Rocky Fork Lake 23 mi upstream since 1952, capacity, 34,100 acre-ft. Water-quality data collected at this site 1965 to 1977. Sediment data 1956 to 1962. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,900 ft<sup>3</sup>/s Mar. 10, 1964, gage height, 20.50 ft, from rating curve extended above 30,000 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 20.08 ft; minimum daily, 5 ft<sup>3</sup>/s Oct. 29, 1965.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	72	54	136	301	367	755	766	458	157	1700	242
2	45	70	60	130	283	342	904	667	453	152	1140	170
3	46	60	250	150	278	282	958	540	446	156	870	173
4	54	52	600	300	291	258	817	470	417	154	758	190
5	58	48	400	282	336	257	807	391	348	148	600	220
6	64	45	193	326	348	432	772	396	453	145	634	158
7	63	43	137	476	347	1120	676	424	474	118	622	145
8	62	47	127	452	344	1250	504	425	490	105	655	222
9	62	53	125	400	339	1090	490	1930	502	99	612	153
10	62	320	120	297	310	2170	582	2020	357	99	391	138
11	58	340	100	232	249	3530	715	1570	343	115	275	130
12	54	150	96	210	245	2000	760	1130	310	391	272	120
13	54	64	83	161	256	1300	747	1080	303	303	331	110
14	53	58	206	271	297	1200	711	1020	292	265	509	105
15	49	56	220	886	312	1100	630	697	206	246	497	100
16	49	52	229	1170	408	650	620	693	159	295	510	98
17	52	52	336	963	374	560	668	592	149	407	489	97
18	54	52	297	437	358	3000	791	457	520	702	476	97
19	53	52	177	358	409	2700	1080	432	494	421	446	96
20	52	52	132	303	476	2300	1070	416	467	137	353	98
21	50	52	125	342	476	2100	1640	299	465	542	214	104
22	50	54	123	459	435	2000	1420	281	502	2070	188	110
23	50	52	129	541	429	1500	1310	270	379	3400	209	100
24	50	52	157	605	460	1320	1200	270	299	4500	178	96
25	50	50	155	582	469	897	1140	258	276	3200	169	90
26	57	50	159	545	449	587	979	260	211	2500	164	86
27	150	50	214	432	408	767	697	299	170	1400	162	80
28	360	50	263	350	380	898	725	293	165	2300	297	76
29	100	50	270	341	382	893	918	290	159	3900	419	72
30	84	52	256	354	---	812	840	325	154	3500	312	68
31	75	---	163	396	---	802	---	392	---	2520	271	---
TOTAL	2164	2250	5956	12887	10449	38484	25926	19353	10421	34447	14723	3744
MEAN	69.8	75.0	192	416	360	1241	864	624	347	1111	475	125
MAX	360	340	600	1170	476	3530	1640	2020	520	4500	1700	242
MIN	44	43	54	130	245	257	490	258	149	99	162	68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	354	735	1193	1065	1423	1664	1403	1143	702	423	316	290											
MAX	1446	2628	3159	2744	2982	4070	3087	3808	1836	1490	1827	2838											
(WY)	1991	1986	1991	1991	1990	1975	1989	1983	1981	1980	1980	1979											
MIN	40.0	75.0	41.9	37.8	211	213	151	95.7	59.9	55.0	40.7	34.6											
(WY)	1988	1992	1988	1977	1987	1983	1976	1976	1988	1988	1991	1983											

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1971 - 1992
ANNUAL TOTAL	345363	180804	
ANNUAL MEAN	946	494	890
HIGHEST ANNUAL MEAN			1373
LOWEST ANNUAL MEAN			325
HIGHEST DAILY MEAN	7250	Jan 7	e 4500 Jul 24
LOWEST DAILY MEAN	27	Aug 13	e 43 Nov 7
ANNUAL SEVEN-DAY MINIMUM	33	Aug 11	e 50 Nov 3
INSTANTANEOUS PEAK FLOW			e 7250 Jul 24
INSTANTANEOUS PEAK STAGE			e 9.12 Jul 24
INSTANTANEOUS LOW FLOW			29 Jul 11
10 PERCENT EXCEEDS	3240	1110	2470
50 PERCENT EXCEEDS	233	302	386
90 PERCENT EXCEEDS	39	54	62

\* e = estimated

## 03234300 PAINT CREEK AT CHILlicothe, OH

LOCATION.--Lat 39°19'14", long 82°58'42", Ross County, Hydrologic Unit 05060003, on left bank at downstream side of bridge on State Highway 772, 4.3 mi downstream from North Fork Paint Creek and 3.8 mi upstream from mouth.  
DRAINAGE AREA.--1,136 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1985 to current year.

REVISED RECORDS.--WRD-OH-88-1: 1986(M), 1987(M).

GAGE.--Water-stage recorder. Elevation of gage is 600 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Paint Creek Lake, 35 mi upstream, capacity 145,000 acre-ft and Rocky Fork Lake 41 mi upstream, capacity 34,100 acre-ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	106	80	227	376	416	1290	1210	703	209	2460	317
2	64	100	90	204	315	398	1390	993	680	200	1690	237
3	75	83	786	207	306	323	1390	829	637	188	1220	225
4	85	77	1110	395	294	276	1210	659	628	209	1050	293
5	100	75	909	476	332	267	1100	504	639	193	711	325
6	102	71	449	404	342	758	1040	467	1610	177	732	233
7	100	68	244	696	343	2400	907	504	986	158	690	190
8	100	66	195	691	343	2570	626	515	907	121	713	400
9	99	70	182	648	337	1810	556	4990	886	115	760	246
10	100	458	168	486	330	2700	720	3750	630	111	521	192
11	90	493	148	363	268	4290	1180	2640	542	156	361	163
12	87	121	126	330	240	3800	1140	1930	490	451	310	145
13	84	94	123	271	247	2770	1010	1680	450	510	325	138
14	78	89	320	411	310	1920	991	1620	491	424	415	131
15	80	86	391	1320	352	1830	836	1160	375	531	505	125
16	82	84	292	1670	749	1650	805	966	281	634	619	115
17	82	81	429	1500	635	946	922	864	243	648	543	110
18	78	81	436	684	520	987	1270	760	1130	1450	517	109
19	74	82	296	596	516	4980	2390	604	1360	1370	514	106
20	72	80	218	939	564	3630	1800	567	1020	413	410	105
21	72	80	183	730	584	3230	3160	441	796	322	265	110
22	72	80	178	576	545	3010	2640	359	813	2330	207	129
23	72	80	187	698	509	2970	2210	335	636	2540	243	137
24	73	80	218	914	570	2040	1900	324	474	5880	211	118
25	75	77	239	760	591	1510	1790	319	446	3790	192	104
26	79	75	223	798	568	869	1640	304	356	4550	184	101
27	468	75	256	537	506	965	1230	344	267	3430	183	94
28	513	75	312	435	449	1180	1200	350	232	846	229	90
29	128	75	354	389	436	1200	1470	344	214	1250	451	86
30	113	77	390	379	---	1220	1280	490	205	4710	434	81
31	108	---	296	421	---	1780	---	754	---	3590	365	---
TOTAL	3470	3239	9828	19155	12477	58695	41093	31576	19127	41506	18030	4955
MEAN	112	108	317	618	430	1893	1370	1019	638	1339	582	165
MAX	513	493	1110	1670	749	4980	3160	4990	1610	5880	2460	400
MIN	64	66	80	204	240	267	556	304	205	111	183	81

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1992, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992
MEAN	469	950	1523	1299	2123	1920	1869
MAX	2106	3368	5202	3514	3459	3346	3448
(WY)	1991	1986	1991	1991	1990	1991	1989
MIN	48.2	90.7	62.8	298	310	458	376
(WY)	1988	1988	1988	1988	1987	1987	1986

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1986 - 1992	
ANNUAL TOTAL	457476		263151			
ANNUAL MEAN	1253		719		1158	
HIGHEST ANNUAL MEAN					1910	
LOWEST ANNUAL MEAN					483	
HIGHEST DAILY MEAN	11800	Feb 7	5880	Jul 24	25300	May 29 1990
LOWEST DAILY MEAN	61	Sep 29	64	Oct 2	43	Oct 22 1987
ANNUAL SEVEN-DAY MINIMUM	64	Sep 24	73	Oct 19	44	Oct 20 1987
INSTANTANEOUS PEAK FLOW			10200	Jul 24	30100	May 29 1990
INSTANTANEOUS PEAK STAGE			15.15	Jul 24	24.67	May 29 1990
INSTANTANEOUS LOW FLOW			64	Oct 2	43	Oct 22 1987
10 PERCENT EXCEEDS	4220		1720		3350	
50 PERCENT EXCEEDS	296		412		457	
90 PERCENT EXCEEDS	72		82		71	

## 03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years October 1985 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to current year.

pH: October 1985 to current year.

WATER TEMPERATURES: October 1985 to current year.

DISSOLVED OXYGEN: October 1985 to current year.

INSTRUMENTATION.--Water-quality monitor since Oct. 1985. Digital recorder set for one-hour-interval punch. Electronic data logger replaced digital recorder since March 19, 1991. Set for one-hour-intervals.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 980 microsiemens Dec. 9, 11, 1989; minimum, 110 microsiemens Oct. 17, 1989.

pH: Maximum, 9.0 units May 24, 1986; minimum, 7.1 units July 26, 1992.

WATER TEMPERATURES: Maximum, 31.5°C July 17, Aug. 18, 1988; minimum 0.0°C on many days during winter in water year 1988.

DISSOLVED OXYGEN: Maximum, 19.2 mg/L Feb. 11, 13, 1987; minimum recorded, 3.8 mg/L Aug. 16, 1986.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 876 microsiemens Nov. 26; minimum, 143 microsiemens July 26.

pH: Maximum, 8.8 units Aug. 31, Sept. 1; minimum 7.1 units July 26.

WATER TEMPERATURE: Maximum, 29.0°C July 10; minimum, 0.0°C Jan. 25, 26.

DISSOLVED OXYGEN: Maximum, 14.6 mg/L Mar. 20; minimum, 4.2 mg/L Apr. 19.

## SCIOTO RIVER BASIN

## 03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	600	547	572	581	547	568	807	778	795	610	589	600
2	595	550	571	602	565	582	809	760	793	620	588	605
3	597	555	574	625	607	617	818	683	745	590	557	573
4	588	544	567	654	628	640	724	690	703	580	550	563
5	567	530	552	678	632	655	738	710	723	557	522	544
6	594	556	579	648	614	633	710	681	700	520	467	498
7	589	544	570	662	631	646	717	672	695	573	496	515
8	594	541	570	678	644	663	683	676	678	588	562	575
9	593	529	563	693	639	666	757	683	713	563	545	555
10	564	546	555	663	548	589	791	671	722	604	562	578
11	765	553	581	554	514	538	691	587	630	623	587	607
12	796	578	715	575	542	566	586	506	554	627	600	613
13	808	566	717	587	562	575	546	523	536	599	581	592
14	806	755	781	605	564	584	588	520	560	690	581	612
15	799	771	786	587	564	573	555	526	540	611	547	582
16	817	759	794	798	566	654	547	468	516	665	589	638
17	812	743	787	830	779	805	527	462	493	671	657	660
18	793	660	723	802	759	783	568	481	534	---	---	---
19	772	711	748	778	757	767	592	553	575	---	---	---
20	790	739	769	772	754	763	594	576	584	---	---	---
21	790	725	762	776	752	764	583	563	572	---	---	---
22	765	706	740	785	766	776	594	570	587	589	556	576
23	742	711	729	793	765	779	575	547	559	571	503	548
24	721	693	709	821	609	711	585	572	578	599	547	574
25	722	495	676	838	637	664	602	566	585	615	594	604
26	522	495	509	876	664	831	604	565	586	629	589	607
27	504	450	466	860	839	847	587	531	563	632	596	617
28	457	442	450	843	801	826	544	532	539	622	607	615
29	499	458	478	809	563	687	574	544	551	614	597	608
30	526	501	515	785	578	707	598	576	589	620	583	602
31	532	524	529	---	---	---	604	596	600	596	587	592
MONTH	817	442	633	876	514	682	818	462	616	690	467	587
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	628	599	615	632	563	602	514	503	508	563	555	559
2	659	601	633	658	571	580	502	495	498	563	556	560
3	638	573	611	591	579	585	555	492	503	559	554	557
4	610	595	603	600	587	594	517	505	511	560	552	557
5	625	590	609	603	585	595	563	518	531	566	556	560
6	644	595	619	597	457	541	588	529	542	564	548	559
7	661	603	634	476	419	451	562	540	547	558	548	553
8	679	666	674	---	---	---	568	546	558	566	544	553
9	685	656	674	504	483	492	570	548	558	597	258	373
10	683	647	669	582	495	525	552	540	545	474	359	432
11	681	660	673	545	517	529	550	524	538	490	382	453
12	697	678	686	545	538	542	544	535	539	451	430	436
13	697	652	674	558	541	552	549	540	545	468	453	459
14	666	645	654	560	556	558	556	546	550	489	467	481
15	648	600	626	558	554	557	561	555	558	506	490	501
16	633	591	611	564	554	558	558	554	556	511	501	507
17	621	579	599	569	563	566	555	540	549	521	500	512
18	583	544	568	578	383	561	547	496	533	523	509	515
19	582	552	568	408	340	367	516	459	494	527	519	523
20	608	585	597	507	413	457	510	500	507	528	519	523
21	613	558	586	549	512	533	539	397	452	536	521	528
22	612	565	589	530	517	522	514	479	500	545	530	539
23	615	589	600	517	482	498	525	512	516	542	523	533
24	604	590	595	499	490	496	549	526	536	541	526	537
25	601	590	595	509	500	505	549	547	548	539	531	535
26	622	600	612	535	511	523	553	548	549	543	533	538
27	625	583	607	528	508	516	552	543	549	544	523	533
28	604	569	588	524	509	513	543	529	534	536	521	530
29	618	588	604	522	512	518	---	---	---	548	520	538
30	---	---	---	528	515	520	553	547	550	551	517	527
31	---	---	---	519	494	507	---	---	---	563	554	559
MONTH	697	544	620	658	340	529	588	397	531	597	258	518

03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	562	550	556	594	562	579	---	---	---	560	536	548
2	560	551	555	581	571	577	---	---	---	566	544	554
3	559	540	552	595	576	587	---	---	---	588	543	568
4	552	545	549	600	585	593	---	---	---	608	558	576
5	566	428	558	598	585	593	624	617	622	617	519	556
6	562	350	439	596	587	593	637	608	624	596	524	536
7	537	466	510	599	589	592	612	591	605	563	536	546
8	540	537	538	624	594	606	610	600	604	579	460	509
9	545	539	543	618	600	610	609	573	595	550	483	526
10	562	545	556	632	507	599	617	575	593	559	505	525
11	578	562	569	597	581	592	638	619	631	604	563	587
12	593	574	583	575	505	535	646	625	637	614	605	609
13	598	576	592	503	361	419	639	584	619	616	607	612
14	574	545	558	525	428	469	597	501	552	617	600	610
15	563	524	548	571	526	552	523	417	504	610	594	604
16	574	563	567	519	466	498	514	432	481	641	605	611
17	593	576	585	572	510	542	549	512	535	658	606	614
18	594	275	465	588	477	524	563	539	558	617	556	584
19	499	326	431	525	507	515	---	---	---	560	554	558
20	500	428	453	579	528	556	570	549	562	559	552	556
21	556	508	536	589	537	572	584	558	572	557	555	556
22	575	557	566	601	535	560	605	577	589	537	532	535
23	590	570	582	539	529	533	611	584	595	541	534	537
24	586	570	582	549	235	350	593	566	582	547	538	542
25	592	581	587	468	258	373	588	550	572	561	547	555
26	603	588	595	357	143	325	579	545	561	568	559	564
27	607	594	604	314	220	260	572	532	557	611	551	563
28	614	594	606	372	320	345	594	541	559	563	545	557
29	603	570	589	413	375	400	579	545	564	564	552	559
30	598	560	584	429	401	411	547	531	541	564	550	558
31	---	---	---	445	418	441	550	529	537	---	---	---
MONTH	614	275	551	632	143	506	646	417	575	658	460	564
YEAR	876	143	576									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	8.3	8.2	8.2	8.2	8.0	8.1	8.3	8.2	8.3	8.4	8.2	8.3
2	8.3	8.1	8.2	8.4	8.2	8.3	8.3	8.2	8.3	8.4	8.2	8.3
3	8.3	8.1	8.2	8.5	8.3	8.4	8.3	8.0	8.1	8.4	8.1	8.3
4	8.2	8.1	8.2	8.5	8.4	8.4	8.2	8.1	8.2	8.2	8.1	8.2
5	8.2	8.1	8.2	8.5	8.5	8.5	8.3	8.2	8.3	8.2	8.1	8.2
6	8.4	8.2	8.3	8.5	8.4	8.5	8.3	8.2	8.3	8.3	8.1	8.2
7	8.5	8.3	8.3	8.5	8.4	8.4	8.2	8.2	8.2	8.3	8.2	8.3
8	8.5	8.3	8.4	8.5	8.4	8.4	8.2	8.1	8.1	8.4	8.2	8.3
9	8.5	8.2	8.3	8.6	8.4	8.5	8.1	8.0	8.1	8.4	8.2	8.3
10	8.4	8.2	8.3	8.5	8.3	8.4	8.4	8.1	8.3	8.3	8.2	8.2
11	8.3	8.1	8.2	8.4	8.3	8.4	8.4	8.3	8.3	8.4	8.2	8.3
12	8.5	8.2	8.3	8.4	8.3	8.3	8.3	8.1	8.2	8.4	8.3	8.4
13	8.5	8.2	8.3	8.5	8.3	8.4	8.1	8.0	8.1	8.4	8.2	8.3
14	8.5	8.2	8.4	8.5	8.3	8.4	8.1	7.8	8.0	8.3	8.2	8.2
15	8.5	8.2	8.3	8.4	8.3	8.3	8.3	8.0	8.1	8.3	8.2	8.2
16	8.5	8.2	8.4	8.3	8.2	8.2	8.3	8.2	8.3	8.4	8.2	8.3
17	8.5	8.3	8.4	8.4	8.2	8.3	8.4	8.3	8.3	8.4	8.3	8.3
18	8.5	8.2	8.4	8.4	8.3	8.3	8.4	8.3	8.3	---	---	---
19	8.5	8.2	8.3	8.3	8.2	8.3	8.4	8.3	8.4	---	---	---
20	8.5	8.2	8.4	8.2	8.2	8.2	8.3	8.3	8.3	---	---	---
21	8.5	8.3	8.4	8.2	8.1	8.1	8.3	8.2	8.3	---	---	---
22	8.4	8.2	8.3	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.3	8.3
23	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.2	8.2	8.3	8.1	8.2
24	8.3	8.1	8.2	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.2	8.2
25	8.2	8.1	8.1	8.5	8.3	8.4	8.4	8.2	8.3	8.3	8.2	8.2
26	8.1	8.0	8.1	8.5	8.4	8.5	8.4	8.2	8.3	8.3	8.2	8.3
27	8.1	7.9	8.0	8.5	8.4	8.5	8.4	8.2	8.3	8.3	8.2	8.3
28	8.1	7.9	8.0	8.5	8.4	8.4	8.3	8.2	8.3	8.3	8.2	8.3
29	8.2	8.0	8.1	8.4	8.3	8.4	8.3	8.2	8.2	8.3	8.2	8.2
30	8.2	8.0	8.1	8.4	8.3	8.3	8.3	8.2	8.2	8.3	8.2	8.3
31	8.2	8.0	8.1	---	---	---	8.3	8.2	8.2	8.3	8.2	8.3
MONTH	8.5	7.9	8.2	8.6	8.0	8.3	8.4	7.8	8.2	8.4	8.1	8.3



03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.5	16.5	18.0	14.0	13	13.5	10.0	8.5	9.0	5.0	4.0	4.5
2	20.0	17.0	18.5	13.0	9.5	11.5	8.5	7.5	8.0	4.5	3.0	4.0
3	19.5	17.0	18.5	9.5	7.0	8.5	8.0	7.0	7.5	6.0	4.5	5.0
4	21.5	18.0	19.5	7.0	5.0	6.0	6.5	4.5	5.5	6.5	6.0	6.5
5	19.5	16.5	18.5	5.5	3.0	4.0	5.0	4.0	4.5	6.0	5.5	5.5
6	16.0	14.0	15.0	6.5	4.0	5.0	6.5	5.0	5.5	5.5	4.5	5.0
7	14.0	12.0	13.0	5.5	4.5	5.0	8.0	5.5	7.0	4.5	4.0	4.5
8	14.0	10.5	12.5	5.5	3.5	4.5	11.0	8.0	9.5	4.0	3.5	4.0
9	14.5	11.5	13.0	5.0	2.5	3.5	11.0	9.5	11.0	6.0	4.0	5.0
10	14.5	13.5	14.0	5.5	3.0	4.0	9.5	6.5	8.0	5.5	4.5	5.5
11	14.0	13.0	14.0	8.0	5.5	6.5	6.5	5.0	6.0	5.0	3.5	4.0
12	14.0	12.5	13.0	6.0	5.0	5.5	8.5	6.0	7.0	4.0	3.0	3.5
13	14.0	11.5	12.5	7.5	5.5	6.5	10.5	8.5	10.0	5.5	3.5	4.5
14	14.0	11.0	12.5	7.5	5.5	6.5	10.5	7.5	10.0	6.0	3.5	5.5
15	13.5	12.0	13.0	9.5	7.5	8.5	7.5	4.0	6.0	3.5	2.5	3.0
16	13.5	11.0	12.0	10.5	9.0	10.0	4.0	2.5	3.0	2.0	1.5	1.5
17	13.0	10.0	11.5	9.5	7.0	8.5	4.0	2.5	3.0	---	---	---
18	13.5	10.0	12.0	10.5	8.0	9.5	3.5	2.0	3.0	---	---	---
19	13.0	11.0	12.0	12.0	10.5	11.0	2.0	1.0	1.5	---	---	---
20	11.0	9.0	10.0	13.0	11.5	12.0	2.0	.5	1.0	---	---	---
21	12.0	8.5	10.0	13.5	12.5	13.0	3.5	2.0	3.0	---	---	---
22	12.5	9.5	11.0	12.5	12.0	12.0	4.0	2.5	3.0	1.0	.5	1.0
23	14.0	11.5	12.5	13.0	11.5	12.0	5.0	4.0	4.5	3.0	1.5	2.5
24	16.0	13.5	14.5	11.0	7.0	9.0	5.5	4.0	4.5	2.5	.5	1.5
25	18.0	15.0	16.5	6.5	4.5	5.5	4.0	3.0	3.5	1.0	.0	.5
26	18.0	16.0	17.0	4.5	2.5	3.5	3.5	2.0	3.0	1.5	.0	1.0
27	17.0	16.0	16.5	3.0	2.0	2.5	4.0	2.0	3.0	1.5	.5	1.0
28	17.0	16.0	16.0	4.5	3.0	4.0	3.5	2.5	3.0	2.5	1.5	2.0
29	16.5	15.0	16.0	8.5	4.5	6.5	4.5	3.5	4.0	3.0	2.0	2.5
30	16.0	15.0	15.5	10.5	8.0	9.5	4.5	4.0	4.0	3.0	1.5	2.5
31	16.5	15.0	16.0	---	---	---	4.5	4.0	4.5	3.5	3.0	3.0
MONTH	21.5	8.5	14.5	14.0	2.0	7.5	11.0	.5	5.5	6.5	.0	3.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.0	2.0	2.5	9.0	5.5	7.0	10.0	8.0	9.5	17.0	14.5	15.5
2	3.0	1.0	2.0	11.5	7.5	9.5	9.5	9.0	9.5	19.0	16.5	17.5
3	4.0	1.5	2.5	13.5	10.0	11.5	9.0	6.5	8.0	18.5	17.0	18.0
4	4.0	3.0	3.5	14.5	10.5	12.5	8.0	7.5	8.0	17.5	16.0	16.5
5	5.0	3.5	4.0	14.0	12.0	13.0	9.0	7.5	8.0	16.0	14.5	15.0
6	4.5	2.5	3.5	14.0	13.0	13.5	10.0	8.5	9.0	15.0	14.0	14.5
7	3.5	3.0	3.5	13.5	12.5	13.0	12.0	9.0	10.5	16.0	14.0	15.0
8	3.0	2.0	2.5	---	---	---	15.0	11.0	13.0	16.5	15.5	15.5
9	2.5	1.0	1.5	12.0	10.5	11.0	16.0	12.5	14.0	15.5	13.0	14.0
10	2.5	.5	1.5	11.5	9.5	11.0	15.5	14.0	14.5	17.5	14.0	15.5
11	3.5	2.0	2.5	9.5	8.5	9.0	16.0	13.5	14.5	18.5	16.0	17.5
12	3.0	1.5	2.5	8.5	8.0	8.5	15.0	14.0	14.5	18.5	17.0	18.0
13	3.5	2.0	2.5	8.0	7.5	8.0	14.0	12.5	13.0	18.5	17.5	18.0
14	4.0	3.0	3.5	7.5	7.0	7.0	13.0	12.0	12.5	18.5	16.5	17.5
15	6.0	4.0	5.0	8.0	7.0	7.5	14.5	11.5	13.0	18.0	16.0	17.0
16	6.0	6.0	6.0	8.0	6.5	7.0	16.5	14.0	15.0	19.0	16.5	17.5
17	6.0	5.5	5.5	8.5	8.0	8.5	16.5	15.5	16.0	20.5	17.5	19.0
18	8.0	6.0	7.0	9.0	6.0	8.5	17.0	15.5	16.5	20.0	18.5	19.0
19	7.5	6.5	7.5	6.0	5.5	5.5	16.5	15.5	16.0	19.5	18.0	18.5
20	6.5	5.5	6.0	6.5	5.0	6.0	17.5	16.0	16.5	20.5	19.0	19.5
21	7.0	5.0	5.5	7.0	5.5	6.5	19.5	17.5	18.0	22.5	19.0	20.5
22	8.5	6.0	7.0	6.5	6.0	6.5	17.5	16.0	16.5	23.0	19.5	21.0
23	7.5	7.0	7.5	6.5	5.0	6.0	18.0	15.0	16.5	23.0	20.0	21.5
24	7.5	7.0	7.5	7.5	6.0	6.5	19.5	17.5	18.5	22.0	17.5	20.0
25	7.5	7.0	7.5	7.0	6.5	7.0	18.5	16.0	17.0	17.5	16.0	16.5
26	7.0	5.5	6.0	8.5	7.0	8.0	16.0	15.0	15.5	17.0	15.0	16.5
27	7.5	5.0	6.0	8.5	7.0	7.5	15.0	14.0	15.0	18.0	15.5	16.5
28	9.0	7.0	8.0	8.5	6.5	7.5	15.5	13.0	14.5	18.5	15.5	17.0
29	8.5	6.5	7.5	8.5	7.5	7.5	---	---	---	17.0	15.5	16.0
30	---	---	---	7.5	7.0	7.5	16.0	15.0	15.0	16.0	15.5	15.5
31	---	---	---	8.5	7.0	7.5	---	---	---	15.5	15.0	15.5
MONTH	9.0	.5	4.5	14.5	5.0	8.5	19.5	6.5	13.5	23.0	13.0	17.5

## 03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	18.0	15.0	16.5	26.5	23.5	25.0	---	---	---	24.0	21.0	22.5
2	20.0	17.0	18.5	27.5	23.5	25.5	---	---	---	22.5	21.0	22.0
3	21.0	18.5	20.0	27.0	24.5	26.0	---	---	---	22.5	21.0	22.0
4	20.5	19.0	19.5	26.5	23.0	25.0	---	---	---	23.0	21.0	22.0
5	19.5	18.5	19.0	26.0	23.0	24.5	22.5	21.5	21.0	23.5	21.5	22.5
6	21.0	18.0	19.5	26.5	23.0	24.5	23.0	20.5	21.5	25.0	21.5	23.0
7	20.5	20.0	20.0	24.5	22.0	23.5	23.5	21.5	22.5	24.5	22.0	23.5
8	20.0	19.5	19.5	25.0	22.0	23.5	23.5	22.5	23.0	24.0	22.0	23.0
9	21.0	19.0	20.0	27.5	24.0	25.5	25.5	22.5	24.0	25.0	22.0	23.5
10	21.5	19.5	20.5	29.0	25.5	27.0	26.0	24.0	25.0	24.0	22.5	23.5
11	21.5	19.5	20.5	28.0	26.0	27.0	25.5	23.5	24.5	22.5	19.5	21.0
12	23.0	20.0	21.5	26.5	24.5	25.5	25.0	22.0	23.5	21.0	18.0	19.5
13	24.0	21.0	22.5	27.5	25.0	26.0	24.0	22.0	23.0	21.0	17.5	19.5
14	23.0	22.0	22.5	28.5	25.5	27.0	23.5	21.5	22.5	22.0	19.0	20.5
15	24.0	21.0	22.5	27.0	25.5	26.5	22.0	20.5	21.5	23.0	20.0	21.5
16	25.5	21.5	23.5	26.5	23.5	25.0	22.5	20.0	21.0	23.5	21.0	22.5
17	27.0	22.5	25.0	25.5	24.5	25.0	22.5	20.5	21.5	23.5	21.0	22.5
18	25.5	21.5	23.5	24.0	22.5	23.5	---	---	21.0	23.0	22.0	22.5
19	23.5	22.0	22.5	24.5	22.0	23.5	---	---	---	22.5	20.0	21.5
20	22.5	19.5	21.0	26.0	23.0	24.5	23.0	20.0	21.5	21.0	18.0	19.5
21	20.0	18.5	19.0	25.0	23.5	24.0	23.5	20.0	22.0	21.0	20.0	20.5
22	20.5	17.5	19.0	24.0	22.5	23.0	23.0	21.0	22.0	21.5	20.5	21.0
23	20.5	19.0	19.5	24.5	23.0	23.5	23.5	21.5	22.5	20.0	17.5	19.0
24	22.0	19.5	20.5	24.5	21.0	22.5	25.0	22.0	23.5	18.5	15.5	17.0
25	23.5	20.5	22.0	24.0	22.0	22.5	26.0	22.5	24.5	18.5	15.0	17.0
26	24.5	21.5	23.0	23.0	22.5	23.0	26.5	23.5	25.0	18.5	16.0	17.5
27	24.0	21.0	22.5	23.0	22.5	22.5	27.5	24.5	26.0	21.0	18.0	19.5
28	25.0	20.5	22.5	23.5	22.0	23.0	26.0	22.0	24.0	20.0	17.0	18.5
29	25.5	21.0	23.5	24.0	22.0	23.0	22.5	20.0	21.5	18.5	16.0	17.5
30	25.5	22.5	24.0	23.5	22.5	23.0	23.0	20.5	22.0	17.0	14.0	15.5
31	---	---	---	23.5	23.0	23.0	24.0	21.5	22.5	---	---	---
MONTH	27.0	15.0	21.0	29.0	21.0	24.5	27.5	20.0	23.0	25.0	14.0	20.5
YEAR	29.0	.0	13.5									

## OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.8	7.3	8.0	8.5	7.8	8.1	8.8	8.4	8.6	10.8	9.8	10.2
2	8.7	7.1	7.8	9.0	8.0	8.4	8.7	8.4	8.5	10.7	9.8	10.2
3	8.2	6.9	7.5	9.3	8.3	8.7	8.8	8.4	8.6	10.9	9.9	10.4
4	8.4	6.9	7.5	9.5	8.6	9.0	8.4	7.3	7.7	10.1	9.7	9.9
5	7.5	6.6	7.0	9.9	8.7	9.2	8.0	7.2	7.5	9.7	9.5	9.6
6	8.1	6.9	7.4	10.4	9.5	9.9	7.8	7.4	7.6	11.3	9.4	10.3
7	8.6	6.9	7.8	9.8	9.5	9.6	7.8	7.5	7.6	10.7	10.3	10.4
8	9.1	7.6	8.2	10.3	9.2	9.7	7.8	7.5	7.6	10.7	9.9	10.3
9	9.4	7.7	8.4	10.5	9.2	9.8	7.7	7.3	7.5	10.9	10.2	10.5
10	8.6	7.5	7.9	9.7	9.3	9.5	9.7	7.5	8.7	11.1	9.7	10.4
11	9.3	7.3	8.3	9.8	9.1	9.4	9.7	8.9	9.2	11.1	9.9	10.4
12	9.8	8.3	8.9	9.6	9.2	9.4	11.1	9.0	10.1	10.7	10.0	10.3
13	10.4	8.4	9.2	10.2	9.3	9.7	10.5	9.5	10.0	11.1	10.3	10.6
14	10.3	8.5	9.2	10.4	9.5	9.9	9.5	9.2	9.3	10.5	9.6	10.1
15	10.0	8.3	9.0	10.1	9.4	9.8	10.5	9.4	10.1	9.8	9.5	9.6
16	10.3	8.4	9.2	9.4	9.0	9.2	11.6	10.0	10.7	---	---	---
17	10.6	8.5	9.4	9.9	8.8	9.2	10.6	9.7	10.1	---	---	---
18	10.8	8.6	9.7	10.0	9.1	9.5	10.2	9.5	9.9	---	---	---
19	10.1	8.6	9.2	9.5	9.0	9.2	10.3	9.2	9.7	---	---	---
20	10.4	8.6	9.3	9.2	8.6	8.8	10.4	9.8	10.1	---	---	---
21	10.5	8.7	9.5	8.6	8.2	8.4	10.9	10.3	10.5	---	---	---
22	10.4	8.8	9.5	8.5	8.1	8.2	10.5	10.1	10.3	12.1	9.0	11.4
23	9.8	8.6	9.1	9.1	8.2	8.5	10.6	10.1	10.3	12.1	11.7	12.0
24	9.3	8.1	8.7	8.7	8.2	8.4	10.7	9.8	10.2	11.7	11.2	11.5
25	8.8	7.6	8.2	8.9	8.3	8.6	10.7	9.6	10.1	12.1	11.0	11.5
26	8.1	7.1	7.6	9.5	8.3	8.8	10.7	9.7	10.2	12.5	11.0	11.8
27	7.9	6.9	7.4	9.8	9.0	9.4	10.9	9.8	10.3	12.2	11.4	11.7
28	7.9	7.0	7.6	10.2	9.7	9.9	10.5	10.0	10.3	12.1	11.8	11.9
29	8.2	7.0	7.7	10.5	9.8	10.1	10.2	9.9	10.1	12.2	11.7	11.9
30	8.7	7.4	8.0	9.7	8.9	9.4	10.2	9.8	10.0	12.1	11.2	11.6
31	8.6	7.7	8.2	---	---	---	10.5	9.8	10.1	11.7	11.2	11.4
MONTH	10.8	6.6	8.4	10.5	7.8	9.2	11.6	7.2	9.4	12.5	9.0	10.8



## SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH  
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 39°12'44", long 82°51'50", in sec. 6, T.7 N., R.20 W., Ross County, Hydrologic Unit 05060002, on left bank at downstream side of highway bridge, 0.8 mi downstream from Walnut Creek, 1.2 mi north of Higby, 3 mi northwest of Richmondale and 5.0 mi upstream from Salt Creek.

DRAINAGE AREA.--5,131 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 893: 1937(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 567.28 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 7, 1930, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 31.6 ft occurred Mar. 26, 1913, and has not been exceeded since.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	489	823	794	1030	1630	1400	5610	3750	4740	1470	9020	2270
2	482	775	929	922	1480	1360	4510	3540	4040	1340	8870	2060
3	499	730	1930	870	1370	1260	3860	3040	3690	1250	8460	2060
4	528	701	4450	1020	1280	1260	2980	2820	3230	1260	7810	1950
5	549	687	2470	1180	1260	1360	2750	2570	3520	1210	6470	1760
6	549	686	1670	1090	1270	1700	2650	2470	5000	1190	4890	1600
7	539	686	1220	1260	1270	4010	2460	2680	4290	1190	4080	1490
8	553	686	1060	1310	1250	5270	2280	2110	4020	1230	3510	1740
9	563	691	990	1260	1270	4870	2190	8570	3710	1080	5000	1690
10	539	1110	936	1130	1210	4990	2300	8030	3160	1000	6620	1660
11	562	1180	838	1000	1060	7760	2860	5290	2570	1060	4190	1490
12	943	827	769	944	992	7310	2610	3920	2110	1260	3740	1330
13	796	771	757	893	1290	5410	2360	3530	1890	1620	3020	1240
14	713	796	1290	960	1460	4250	2240	3220	2060	11600	2850	1190
15	665	809	1900	2660	1490	3610	2100	2720	1640	18600	3070	1100
16	700	790	1370	3120	1980	3300	2030	2430	1360	21500	5540	1160
17	874	684	1250	2530	2340	2480	2520	2240	1230	20000	3880	1180
18	843	642	1190	1790	2000	2690	5310	1980	2450	21200	2840	1180
19	782	636	1030	1540	2220	9450	8920	2090	5870	24600	2460	1030
20	745	643	873	1360	2680	12900	11200	2230	5840	25400	2310	1050
21	734	697	811	1310	2830	10100	12600	1870	5370	21200	2050	1120
22	728	732	794	1450	2820	8130	13400	1550	4180	19100	1930	1080
23	738	742	862	1860	2770	7360	13200	1610	3010	18000	2000	2240
24	746	679	1120	2490	2260	6250	11000	1560	2420	17700	1660	2000
25	801	620	1510	3060	2150	5890	9410	2930	2350	12900	1570	1450
26	810	592	1150	2160	2100	4860	7220	2280	2150	14600	1470	1300
27	1200	588	1020	1840	2150	4310	5620	1970	2100	25600	1460	1130
28	1250	587	1040	1660	1730	4180	5630	1920	1870	20400	2720	1040
29	894	601	1090	1570	1480	3920	4700	1960	1710	19200	6080	966
30	846	747	1140	1680	---	3750	4330	2150	1590	16000	3960	951
31	825	---	1140	1700	---	5480	---	5210	---	10700	2770	---
TOTAL	22485	21938	39393	48649	51092	150870	160850	94240	93170	354460	126300	43507
MEAN	725	731	1271	1569	1762	4867	5362	3040	3106	11430	4074	1450
MAX	1250	1180	4450	3120	2830	12900	13400	8570	5870	25600	9020	2270
MIN	482	587	757	870	992	1260	2030	1550	1230	1000	1460	951

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1992, BY WATER YEAR (WY)

MEAN	1185	2307	4311	6548	7819	9650	8355	5675	3929	2726	1899	1375
MAX	6524	15460	17190	39500	18620	28220	19600	19680	12670	11430	10070	13230
(WY)	1991	1973	1991	1937	1951	1963	1957	1933	1981	1992	1980	1979
MIN	263	304	349	433	518	1375	1485	809	718	518	457	301
(WY)	1931	1935	1935	1931	1954	1941	1941	1941	1934	1944	1936	1953

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1931 - 1992
ANNUAL TOTAL	1686870	1206954	
ANNUAL MEAN	4622	3298	4632
HIGHEST ANNUAL MEAN			8173
LOWEST ANNUAL MEAN			1364
HIGHEST DAILY MEAN	41800	25600	127000
LOWEST DAILY MEAN	482	482	244
ANNUAL SEVEN-DAY MINIMUM	510	519	255
INSTANTANEOUS PEAK FLOW		27700	177000
INSTANTANEOUS PEAK STAGE		14.25	26.40
INSTANTANEOUS LOW FLOW		482	244
10 PERCENT EXCEEDS	13300	7480	11800
50 PERCENT EXCEEDS	1350	1810	2000
90 PERCENT EXCEEDS	602	741	513

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)
DEC 09...	1010	1020	760	7.9	16.0	10.0	14	10.2	92	490	490
MAR 10...	1000	4610	643	8.2	15.0	12.5	--	9.8	96	560	240
JUN 09...	1015	3740	707	8.1	20.5	20.5	23	7.8	89	820	460
SEP 02...	0910	1900	617	8.3	21.0	21.5	10	7.7	88	820	560

DATE	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKALINITY TOT FET FIELD (MG/L AS CaCO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)
DEC 09...	270	68	24	47	4.8	252	0	208	97	54	0.40
MAR 10...	--	--	--	--	--	195	0	161	--	--	--
JUN 09...	300	74	28	30	3.4	234	0	193	93	47	0.30
SEP 02...	280	72	25	31	4.0	244	0	202	82	42	0.30

DATE	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUMINUM, DIS-SOLVED (UG/L AS Al) (01106)	BARIUM, DIS-SOLVED (UG/L AS Ba) (01005)
DEC 09...	4.7	503	1.90	0.100	0.120	0.70	0.200	0.150	0.130	20	65
MAR 10...	--	--	3.60	0.090	0.090	1.1	0.240	0.100	0.080	--	--
JUN 09...	4.9	438	5.80	0.030	0.030	0.50	0.080	0.080	0.090	<10	65
SEP 02...	6.8	382	2.00	0.020	0.010	0.50	0.160	0.120	0.110	<10	70

DATE	COBALT, DIS-SOLVED (UG/L AS Co) (01035)	IRON, DIS-SOLVED (UG/L AS Fe) (01046)	LITHIUM, DIS-SOLVED (UG/L AS Li) (01130)	MANGANESE, DIS-SOLVED (UG/L AS Mn) (01056)	MOLYBDENUM, DIS-SOLVED (UG/L AS Mo) (01060)	NICKEL, DIS-SOLVED (UG/L AS Ni) (01065)	SELENIUM, DIS-SOLVED (UG/L AS Se) (01145)	SILVER, DIS-SOLVED (UG/L AS Ag) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS Sr) (01080)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC 09...	<3	39	16	69	10	2	<1	<1.0	1600	<6	26
MAR 10...	--	--	--	--	--	--	--	--	--	--	84
JUN 09...	<3	15	9	9	<10	3	<1	<1.0	1600	<6	103
SEP 02...	<3	11	7	4	<10	2	<1	<1.0	1200	<6	39

## SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1967 to current year.  
pH: March 1967 to current year.  
WATER TEMPERATURES: March 1967 to current year.  
DISSOLVED OXYGEN: March 1967 to current year.

INSTRUMENTATION.--Water-quality monitor since March 1967. Digital recorder set for one-hour-interval punch since May 1972. Electronic data logger since April 30, 1991. Set for one-hour-interval.

REMARKS.--Samples were collected each month as part of the National Stream Quality Accounting Network. Interruptions in the water-quality record were due to malfunction of the instrument. Daily Sediment data collected 1954-1974, 1979-1982.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,070 microsiemens Sept. 29, 1984; minimum, 113 microsiemens Sept. 16, 1975.  
pH: Maximum, 9.3 units July 21, 1982, July 19, Aug. 21, 1984; minimum, 5.9 units Mar. 8, 1980.  
WATER TEMPERATURES: Maximum, 34.0°C June 29, 1966; minimum, 0.0°C on many days during winter.  
DISSOLVED OXYGEN: Maximum, >20.0 mg/L on several days from 1982 to 1989; minimum, 0.0 mg/L on many days during 1968, Sept. 13, 1969.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 970 microsiemens Oct. 10; minimum, 258 microsiemens May 9.  
pH: Maximum, 9.1 units June 16; minimum, 7.4 units Oct. 7, July 15.  
WATER TEMPERATURES: Maximum, 28.0°C July 10; minimum, 1.5°C Jan. 26, 27.  
DISSOLVED OXYGEN: Maximum recorded, 19.0 mg/L June 16; minimum recorded, 4.5 mg/L Nov. 23.

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	794	764	777	831	828	829	907	877	887	735	689	708
2	831	795	809	843	823	831	880	809	854	769	737	752
3	860	831	840	840	828	832	790	614	664	795	770	780
4	874	858	865	831	822	827	628	509	601	795	736	777
5	870	857	864	843	821	833	501	466	478	730	695	702
6	857	831	840	843	811	832	558	491	523	769	697	732
7	875	840	857	808	796	800	622	560	593	767	673	728
8	903	866	878	808	795	801	674	624	650	703	668	688
9	904	893	897	829	800	815	712	676	700	724	703	712
10	970	894	926	829	664	758	719	711	714	734	725	731
11	956	946	953	718	629	664	746	714	728	---	---	---
12	958	924	946	752	647	703	811	748	777	---	---	---
13	921	913	916	811	754	784	831	811	822	---	---	---
14	938	918	926	835	810	822	812	624	678	---	---	---
15	956	936	945	835	822	827	714	668	689	---	---	---
16	949	868	907	854	825	838	771	716	740	---	---	---
17	865	842	849	894	853	868	771	651	728	---	---	---
18	863	840	851	922	895	905	646	606	617	---	---	---
19	854	846	849	947	923	935	626	607	614	---	---	---
20	861	840	849	950	933	941	666	628	645	---	---	---
21	853	824	833	938	912	921	711	668	691	---	---	---
22	822	806	813	912	887	899	722	702	710	812	797	807
23	847	816	831	918	902	913	740	721	731	797	619	762
24	860	844	852	912	890	897	727	703	713	747	618	670
25	866	851	855	893	885	890	749	717	727	791	755	776
26	868	856	861	886	875	882	752	749	751	799	767	784
27	884	718	799	880	868	876	752	736	742	766	757	762
28	779	680	721	878	856	867	745	724	741	790	753	767
29	817	713	774	902	881	891	719	679	694	815	786	795
30	846	818	828	913	901	907	677	660	665	846	817	829
31	828	821	824	---	---	---	688	661	670	883	848	867
MONTH	970	680	856	950	629	846	907	466	695	883	618	756
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	884	874	879	749	732	741	700	611	648	648	627	635
2	920	885	902	782	749	766	609	592	601	679	646	663
3	927	918	923	817	777	792	613	600	606	---	---	---
4	916	895	906	902	819	853	613	596	603	---	---	---
5	895	879	889	934	904	919	653	603	625	---	---	---
6	890	871	881	924	620	829	670	651	662	---	---	---
7	884	875	879	610	511	553	---	---	---	728	714	719
8	878	859	870	676	528	582	---	---	---	733	701	725
9	858	840	851	690	664	680	744	709	735	698	258	412
10	842	834	839	672	547	620	729	700	713	557	371	448
11	853	836	842	659	545	592	707	654	670	592	562	581
12	855	844	850	670	604	643	680	655	666	608	588	596
13	842	819	835	619	601	610	702	679	695	632	608	620
14	816	773	787	644	619	636	710	699	705	650	630	638
15	799	781	791	636	617	623	722	706	717	684	652	670
16	792	699	729	640	615	626	727	717	721	696	671	685
17	765	705	729	738	643	701	740	727	734	715	681	693
18	809	769	798	752	424	716	797	625	751	728	703	716
19	843	802	821	575	348	423	604	537	566	706	665	693
20	843	822	834	613	534	557	603	551	576	734	699	712
21	854	841	850	649	561	605	617	590	606	769	740	756
22	839	803	819	654	640	647	629	613	624	773	760	767
23	801	770	789	669	646	659	622	591	600	761	743	749
24	768	725	746	698	669	687	600	593	596	777	752	762
25	752	723	736	708	678	699	601	583	593	784	761	771
26	767	753	761	675	661	665	586	575	579	784	651	731
27	769	754	765	710	653	675	583	565	577	680	630	651
28	761	748	754	754	713	731	585	543	564	710	666	684
29	762	741	757	756	746	752	---	---	---	745	706	731
30	---	---	---	750	696	732	633	600	622	744	686	719
31	---	---	---	678	626	653	---	---	---	681	615	654
MONTH	927	699	821	934	348	676	797	537	643	784	258	673

## SCIOTO RIVER BASIN

## 03234500 SCIOTO RIVER AT HIGBY, OH--Continued

## SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	620	577	597	783	769	774	501	477	488	590	547	569
2	642	622	635	789	779	783	500	476	486	617	583	594
3	665	635	653	791	776	782	510	493	501	642	618	631
4	691	666	679	793	765	778	524	510	516	650	622	640
5	699	686	692	796	764	779	520	507	512	660	642	649
6	---	---	---	819	802	811	548	517	529	685	647	662
7	---	---	---	853	816	833	578	549	562	714	687	704
8	---	---	---	853	831	838	598	579	588	721	661	698
9	665	660	663	836	825	833	609	506	592	691	654	666
10	689	661	675	828	816	821	558	424	470	698	688	692
11	710	690	699	---	---	---	568	481	528	738	700	718
12	722	708	715	---	---	---	585	564	572	739	723	731
13	727	721	724	---	---	---	596	584	590	736	730	732
14	727	521	641	---	---	---	616	568	603	744	730	735
15	703	613	668	439	389	407	600	550	579	761	745	755
16	721	706	715	439	426	432	579	366	461	759	744	753
17	720	701	707	434	402	428	556	485	526	761	749	755
18	---	---	---	397	362	376	566	541	550	771	749	760
19	---	---	---	363	344	352	599	566	580	772	767	769
20	---	---	---	371	340	348	632	600	613	768	752	763
21	---	---	---	401	373	385	673	628	642	762	742	750
22	660	622	633	423	394	405	696	674	685	743	692	719
23	666	659	662	448	418	430	698	692	695	713	687	706
24	699	665	681	---	---	---	708	698	702	708	564	638
25	711	678	692	---	---	---	718	697	709	607	562	583
26	757	711	729	---	---	---	701	684	694	634	607	619
27	765	747	757	---	---	---	709	693	703	651	634	643
28	783	753	768	435	416	423	702	662	696	688	649	666
29	785	774	780	451	438	447	652	428	509	697	689	695
30	784	771	779	448	429	436	502	430	465	725	694	706
31	---	---	---	491	437	471	549	504	526	---	---	---
MONTH	785	521	693	853	340	581	718	366	577	772	547	690
YEAR	970	258	711									

## PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	---	---	---	8.1	8.0	8.0	8.2	8.0	8.1	8.0	7.9	7.9
2	---	---	---	8.1	8.1	8.1	8.0	8.0	8.0	8.1	7.9	8.0
3	---	---	---	8.2	8.1	8.1	8.0	7.7	7.8	7.9	7.8	7.9
4	---	---	---	8.3	8.2	8.2	8.1	8.0	8.0	7.9	7.8	7.8
5	---	---	---	8.3	8.2	8.2	8.2	8.1	8.2	7.9	7.9	7.9
6	---	---	---	8.2	8.1	8.2	8.2	8.0	8.1	8.4	7.8	8.1
7	8.1	7.4	7.8	8.2	8.1	8.1	8.0	7.8	7.9	8.5	8.4	8.4
8	---	---	---	8.2	8.2	8.2	8.1	7.9	8.0	8.5	8.5	8.5
9	---	---	---	8.3	8.2	8.2	8.2	8.1	8.1	8.5	8.5	8.5
10	8.8	7.8	8.2	8.3	8.2	8.3	8.1	8.0	8.0	8.5	8.5	8.5
11	---	---	---	8.2	8.1	8.2	8.1	7.9	8.0	---	---	---
12	---	---	---	8.2	8.1	8.2	7.9	7.7	7.8	---	---	---
13	---	---	---	8.1	8.1	8.1	8.0	7.7	7.9	---	---	---
14	---	---	---	8.2	8.1	8.1	8.0	7.9	7.9	---	---	---
15	---	---	---	8.3	8.2	8.2	8.2	8.0	8.1	---	---	---
16	---	---	---	8.3	8.1	8.2	8.2	8.1	8.2	---	---	---
17	8.0	7.8	7.9	8.1	7.9	8.0	8.1	8.0	8.1	---	---	---
18	8.0	7.9	8.0	8.2	7.9	8.0	8.1	8.0	8.1	---	---	---
19	8.0	7.9	7.9	8.3	8.2	8.2	8.2	8.1	8.2	---	---	---
20	8.1	7.9	8.0	8.2	8.2	8.2	8.1	7.9	8.1	---	---	---
21	8.1	8.0	8.0	8.2	8.1	8.1	7.9	7.7	7.8	---	---	---
22	8.1	7.9	8.0	8.1	7.9	8.0	7.8	7.7	7.8	8.1	8.0	8.1
23	7.9	7.8	7.9	7.9	7.9	7.9	7.7	7.6	7.6	8.0	7.9	8.0
24	8.0	7.8	7.9	8.1	8.0	8.1	7.8	7.6	7.7	8.3	7.9	8.1
25	8.1	7.9	8.0	8.2	8.1	8.2	7.9	7.9	7.9	8.3	8.2	8.3
26	8.0	7.9	8.0	8.2	8.2	8.2	8.1	7.9	8.0	8.2	8.0	8.1
27	7.9	7.8	7.8	8.2	8.1	8.2	8.1	7.9	8.0	8.1	7.9	8.0
28	7.8	7.7	7.7	8.1	7.9	8.0	8.0	7.8	7.9	8.0	8.0	8.0
29	7.8	7.7	7.7	8.2	7.9	8.0	7.8	7.8	7.8	8.1	7.9	8.0
30	7.9	7.7	7.8	8.3	8.2	8.2	7.9	7.8	7.8	8.1	8.0	8.1
31	8.1	7.9	8.0	---	---	---	7.9	7.9	7.9	8.0	7.9	7.9
MONTH	8.8	7.4	7.9	8.3	7.9	8.1	8.2	7.6	8.0	8.5	7.8	8.1



## SCIOTO RIVER BASIN

## 03234500 SCIOTO RIVER AT HIGBY, OH--Continued

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	17.5	19.0	16.0	15.0	15.5	10.5	10.0	10.0	6.0	5.5	6.0
2	22.0	18.5	20.0	14.5	12.0	13.5	10.0	9.0	9.5	6.5	5.5	6.0
3	21.0	18.5	20.0	11.5	9.5	10.5	9.0	8.0	9.0	7.5	6.5	7.0
4	22.0	19.0	20.5	9.5	7.5	8.5	7.5	5.5	7.0	8.0	8.0	8.0
5	21.0	18.5	20.0	8.0	6.0	7.0	5.0	4.0	4.0	7.5	7.0	7.5
6	18.0	15.5	17.0	8.5	7.0	8.0	5.0	4.0	4.5	7.0	6.5	7.0
7	16.5	14.0	15.0	8.0	6.5	7.5	6.5	4.5	5.5	6.5	6.0	6.5
8	16.5	13.0	14.5	7.5	5.5	6.5	9.0	6.5	7.5	6.0	5.0	5.5
9	17.0	13.5	15.5	7.0	5.0	6.0	10.0	9.0	9.5	7.5	6.0	6.5
10	16.5	15.0	16.0	6.5	5.5	6.0	9.5	8.0	9.0	7.0	7.0	7.0
11	16.0	15.0	15.5	8.0	6.0	7.0	8.5	7.5	8.0	---	---	---
12	15.5	14.5	15.0	7.0	6.5	6.5	9.5	8.0	8.5	---	---	---
13	16.0	13.5	14.5	8.0	6.5	7.0	11.0	9.5	10.5	---	---	---
14	15.5	13.5	14.5	9.0	7.0	8.0	11.0	8.5	10.5	---	---	---
15	15.5	14.0	15.0	10.5	8.5	9.5	8.5	6.0	7.0	---	---	---
16	16.0	13.5	14.5	11.0	10.0	10.5	6.0	5.0	5.5	---	---	---
17	14.5	12.0	13.5	11.0	9.0	10.0	6.0	5.0	5.5	---	---	---
18	15.0	12.5	13.5	11.5	9.5	10.5	5.0	3.5	4.0	---	---	---
19	14.5	13.0	14.0	13.0	11.5	12.5	4.0	2.5	3.0	---	---	---
20	13.5	11.5	12.5	14.0	13.0	13.5	3.5	2.5	3.0	---	---	---
21	14.0	11.0	12.5	14.0	13.5	14.0	5.0	3.5	4.0	---	---	---
22	14.5	12.0	13.0	13.5	13.0	13.0	5.0	4.0	4.5	3.5	2.5	3.0
23	15.0	13.0	14.0	14.0	12.5	13.0	6.0	5.0	5.5	4.0	3.0	3.5
24	16.5	14.5	15.5	12.5	9.5	11.0	6.5	5.5	6.0	3.0	2.5	3.0
25	18.5	16.0	17.0	9.0	6.5	8.0	5.5	4.5	5.0	3.0	2.5	2.5
26	19.0	17.0	18.0	7.0	5.5	6.5	6.0	4.5	5.5	2.5	1.5	2.0
27	18.0	17.5	18.0	6.0	5.0	5.5	6.5	5.0	5.5	2.5	1.5	2.0
28	18.0	17.5	17.5	7.0	6.0	6.5	5.5	5.0	5.0	3.5	2.5	3.0
29	18.0	16.5	17.5	10.0	7.0	8.5	5.5	5.5	5.5	4.0	3.5	4.0
30	17.0	16.5	17.0	11.0	9.5	10.5	5.5	5.5	5.5	4.5	3.5	4.0
31	17.5	16.5	17.0	---	---	---	6.0	5.5	5.5	5.0	4.5	5.0
MONTH	22.0	11.0	16.0	16.0	5.0	9.5	11.0	2.5	6.5	8.0	1.5	5.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	4.0	4.5	9.5	7.0	8.0	9.0	8.0	8.5	17.0	14.0	15.5
2	5.0	3.5	4.0	11.5	8.5	10.0	8.0	7.0	7.5	19.0	16.5	17.5
3	5.5	4.0	5.0	13.5	11.0	12.0	8.0	6.5	7.5	---	---	---
4	5.5	5.0	5.5	14.5	12.0	13.0	8.0	7.5	7.5	---	---	---
5	6.5	5.0	5.5	15.0	13.5	14.0	10.0	7.0	8.0	---	---	---
6	6.5	4.5	5.5	14.5	13.5	14.0	10.0	8.5	9.5	---	---	---
7	5.5	5.0	5.5	13.5	12.5	13.0	---	---	---	17.0	14.5	15.5
8	5.0	4.0	5.0	13.0	12.5	12.5	---	---	---	16.5	15.5	16.0
9	4.5	3.5	4.0	13.0	12.0	12.5	16.0	13.5	14.5	16.0	12.0	13.5
10	4.5	3.0	4.0	13.0	10.0	12.0	16.5	15.0	16.0	16.5	13.0	14.0
11	5.0	4.5	4.5	10.0	8.5	9.0	17.5	15.0	16.5	18.5	16.0	17.0
12	5.0	4.0	4.5	8.5	7.5	8.0	17.0	15.5	16.5	19.5	17.5	18.5
13	4.5	4.5	4.5	7.5	6.5	7.0	15.5	13.5	14.5	20.0	18.5	19.0
14	5.0	4.5	5.0	6.5	6.0	6.0	14.0	13.0	13.5	20.0	18.0	19.0
15	7.5	5.0	6.0	7.0	5.5	6.0	15.0	12.5	13.5	19.5	18.0	19.0
16	7.5	6.5	7.0	7.5	5.5	6.5	17.0	14.0	15.5	21.0	18.0	19.5
17	7.0	6.0	6.5	8.0	6.5	7.5	17.5	16.5	17.0	22.5	20.0	21.0
18	9.0	7.0	8.0	8.0	6.5	7.5	17.5	17.0	17.0	22.0	21.0	21.5
19	8.5	8.0	8.5	6.5	6.0	6.0	17.0	15.5	16.5	21.5	19.5	20.5
20	8.0	7.5	7.5	6.0	5.0	6.0	17.5	15.5	16.5	22.5	20.5	21.0
21	8.0	6.5	7.0	7.0	5.5	6.5	17.0	16.5	17.0	24.0	20.5	22.0
22	9.0	7.5	8.0	6.5	6.5	6.5	16.5	15.5	16.0	24.5	21.5	23.0
23	8.5	8.0	8.5	7.0	6.0	6.5	16.5	14.5	15.5	24.5	22.0	23.5
24	8.5	8.0	8.5	7.5	6.0	7.0	17.5	16.0	16.5	23.5	20.0	22.0
25	8.5	8.5	8.5	7.5	7.0	7.0	17.0	15.0	16.0	20.0	18.5	19.0
26	8.5	7.0	7.5	8.0	7.0	7.5	15.0	13.5	14.0	19.0	18.0	18.5
27	8.5	6.5	7.5	8.0	7.5	7.5	13.5	13.0	13.5	18.5	17.5	18.0
28	9.5	8.0	9.0	9.0	7.0	8.0	14.5	12.0	13.0	19.5	17.0	18.0
29	9.5	8.0	8.5	8.5	8.0	8.0	14.5	14.5	14.5	19.0	17.0	17.5
30	---	---	---	8.0	7.5	8.0	15.5	14.0	14.5	17.0	16.0	16.5
31	---	---	---	9.0	6.5	8.0	---	---	---	17.0	16.5	16.5
MONTH	9.5	3.0	6.5	15.0	5.0	8.5	17.5	6.5	14.0	24.5	12.0	18.5

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	18.0	15.5	16.5	26.5	24.0	25.0	23.5	21.5	22.5	22.5	20.5	21.5
2	19.0	16.5	18.0	27.5	25.0	26.0	23.0	21.5	22.5	21.5	20.5	21.0
3	21.0	18.0	19.5	27.0	25.5	26.0	23.0	21.5	22.5	21.5	21.0	21.5
4	21.0	20.0	20.0	27.0	24.5	25.5	23.0	22.0	22.5	22.0	21.0	21.5
5	20.5	19.0	20.0	26.5	24.5	25.5	23.0	21.5	22.5	22.5	21.5	22.0
6	---	---	---	26.5	24.0	25.5	23.5	21.0	22.0	23.5	21.5	22.5
7	---	---	---	25.0	23.5	24.5	24.0	22.0	23.0	23.5	22.5	23.0
8	---	---	---	25.5	23.5	24.5	24.0	23.0	23.5	23.5	22.5	23.0
9	22.5	20.0	21.0	27.0	24.5	25.5	25.5	23.0	24.0	24.0	22.0	23.0
10	23.0	20.5	22.0	28.0	25.5	24.5	25.0	23.5	24.0	23.5	22.5	23.0
11	23.0	21.0	22.0	---	---	---	25.0	24.0	24.5	22.5	20.5	21.5
12	24.0	21.5	22.5	---	---	---	24.5	22.5	24.0	21.5	19.5	20.5
13	25.0	22.5	23.5	---	---	---	24.0	22.5	23.0	21.0	19.0	20.0
14	24.5	21.5	23.0	---	---	---	23.0	21.5	22.5	22.0	20.0	21.0
15	24.5	22.0	23.0	25.0	24.5	24.5	21.5	21.0	21.0	23.0	20.5	21.5
16	25.5	22.5	24.0	24.5	24.0	24.5	21.0	19.5	20.5	23.0	21.5	22.0
17	26.5	24.0	25.0	24.5	23.5	24.0	21.5	19.5	20.5	23.0	21.5	22.5
18	26.0	25.0	25.0	23.5	23.0	23.0	22.0	20.0	21.0	22.5	22.0	22.5
19	---	---	---	23.5	22.5	23.0	22.0	21.0	21.5	22.5	20.5	21.5
20	---	---	---	24.0	23.0	23.5	22.5	20.0	21.5	21.0	19.0	20.5
21	---	---	---	23.5	23.0	23.5	22.5	20.5	21.5	21.5	20.5	21.0
22	21.0	19.5	20.0	23.0	22.5	22.5	22.5	21.5	22.0	21.0	20.0	21.0
23	20.5	19.5	20.0	23.0	22.0	22.5	23.0	21.5	22.0	20.0	18.5	19.5
24	22.0	19.5	20.5	---	---	---	24.0	22.0	23.0	19.5	17.5	18.5
25	23.0	20.5	21.5	27.5	23.0	25.0	25.0	23.0	24.0	19.0	17.0	18.0
26	24.0	22.0	23.0	27.5	24.5	25.5	25.5	24.0	24.5	18.5	17.0	18.0
27	24.5	22.0	23.0	26.5	24.0	25.0	25.5	24.0	24.5	20.5	18.5	19.0
28	25.0	22.0	23.5	24.5	22.0	23.0	25.0	22.5	23.5	20.0	18.0	19.0
29	25.0	23.0	24.0	23.5	22.5	23.0	22.5	21.0	21.5	18.5	17.0	18.0
30	25.5	24.0	24.5	23.5	23.0	23.0	22.0	20.0	21.0	17.5	15.5	16.5
31	---	---	---	23.5	22.5	23.0	22.5	20.5	21.5	---	---	---
MONTH	26.5	15.5	22.0	28.0	22.0	24.5	25.5	19.5	22.5	24.0	15.5	21.0
YEAR	28.0	1.5	14.5									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.3	10.5	12.1	7.0	6.2	6.6	7.1	6.4	6.8	10.7	10.2	10.4
2	11.6	9.1	10.1	7.3	6.5	6.9	6.7	6.4	6.5	11.0	10.3	10.6
3	13.4	8.7	11.0	8.2	7.0	7.6	7.1	6.7	6.8	10.4	9.2	9.9
4	13.0	12.6	12.9	9.2	8.1	8.7	7.1	6.5	6.7	9.5	8.9	9.2
5	12.9	6.4	9.9	9.6	8.9	9.2	8.1	7.1	7.7	9.5	9.1	9.3
6	13.9	6.9	12.3	9.3	8.8	9.0	8.3	8.1	8.2	9.9	9.1	9.5
7	14.5	13.0	13.9	8.8	8.5	8.7	8.2	7.7	8.0	10.5	9.8	10.2
8	14.1	8.3	11.9	9.4	8.6	9.0	7.7	7.1	7.4	11.0	10.4	10.7
9	13.0	8.1	10.3	9.6	9.0	9.3	7.0	6.3	6.7	11.0	10.3	10.6
10	14.4	6.9	11.8	9.3	8.9	9.2	6.6	6.3	6.4	10.5	10.3	10.4
11	10.8	6.4	8.4	9.3	8.6	8.9	7.0	6.6	6.8	---	---	---
12	7.8	6.5	7.1	8.8	8.2	8.5	7.3	6.8	7.1	---	---	---
13	7.9	7.2	7.4	8.6	8.0	8.3	6.8	6.4	6.6	---	---	---
14	7.9	7.2	7.4	8.6	8.0	8.3	8.0	6.5	7.2	---	---	---
15	7.6	6.8	7.2	8.2	7.3	7.9	8.7	8.0	8.5	---	---	---
16	7.9	6.8	7.3	7.2	6.2	6.7	9.0	8.6	8.8	---	---	---
17	8.5	7.5	7.9	6.8	6.2	6.4	9.5	8.9	9.2	---	---	---
18	8.7	7.8	8.2	6.7	6.0	6.4	9.7	9.5	9.6	---	---	---
19	8.5	8.0	8.2	6.1	5.3	5.8	10.2	9.7	10.0	---	---	---
20	9.5	8.0	8.7	5.3	4.8	5.2	10.5	10.2	10.3	---	---	---
21	9.9	8.7	9.2	5.1	4.6	4.8	10.2	9.6	10.0	---	---	---
22	9.8	8.7	9.1	4.9	4.6	4.7	9.8	9.3	9.6	12.3	11.5	12.1
23	9.3	8.2	8.8	4.8	4.5	4.7	9.4	8.8	9.1	11.5	10.2	10.7
24	8.5	7.7	8.1	5.3	4.7	5.0	9.4	8.8	9.0	11.1	10.2	10.5
25	8.5	7.1	7.7	6.2	5.3	5.8	9.6	8.9	9.1	10.9	10.5	10.7
26	7.6	6.7	7.1	7.2	6.2	6.8	9.2	8.9	9.0	11.2	10.4	10.8
27	6.6	6.1	6.3	7.5	6.8	7.2	9.4	9.1	9.2	11.2	10.8	11.0
28	6.4	5.9	6.1	8.4	7.5	8.0	9.6	9.4	9.5	10.9	10.6	10.7
29	6.7	6.1	6.4	8.4	7.7	8.1	9.7	9.3	9.5	10.7	10.4	10.6
30	7.0	6.2	6.5	7.7	7.0	7.4	10.5	9.7	10.1	10.8	10.3	10.6
31	6.9	6.1	6.5	---	---	---	10.6	10.4	10.5	10.6	9.8	10.1
MONTH	14.5	5.9	8.9	9.6	4.5	7.3	10.6	6.3	8.4	12.3	8.9	10.4



RESERVOIRS IN SCIOTO RIVER BASIN

- 03220500 O'SHAUGHNESSY RESERVOIR NEAR DUBLIN.**--Lat 40°09'14", long 83°07'33", Delaware County, Hydrologic Unit, 05060001, in gate house of dam on Scioto River, 4.0 mi north of Dublin.  
 DRAINAGE AREA.--979 mi<sup>2</sup>.  
 PERIOD OF RECORD.--October 1924 to current year.  
 GAGE.--water-stage recorder. Monthend contents only for some periods published in WSP 1305. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by city of Columbus). Prior to Dec. 2, 1940, nonrecording gage at same site and datum.  
 REMARKS.--Reservoir is formed by concrete dam; dam completed and storage began in 1924. Usable capacity, 14,500 acre-ft, between elevations, 789.5 ft (sill of outlet gate), and 845 ft (crest of spillway), based on survey made in 1942. Flashboards installed May 8, 1945, additional capacity, 2,480 acre-ft, between elevations 845 ft (crest of spillway), and 847.9 ft (crest of flashboards). Dead storage below elevation 789.5 ft, 55 acre-ft. Figures given herein represent usable contents. Water used for municipal supply of city of Columbus and recreational purposes. Capacity table computed from data furnished by city of Columbus.  
 EXTREMES FOR PERIOD OF RECORD.-- Maximum contents, 24,240 acre-ft Jan. 22, 1959, elevation, 854.40 ft; minimum, 43 acre-ft Feb. 11, 1945, elevation, 791.97 ft.  
 EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,420 acre-ft July 18, elevation, 850.30 ft; minimum, 12,120 acre-ft Dec. 1, elevation, 841.71 ft.
- 03221500 GRIGGS RESERVOIR NEAR COLUMBUS.**--Lat 40°00'54", long 83°05'38", Franklin County, Hydrologic Unit 05060001, on left abutment of dam on Scioto River, 6.2 mi northwest of State Capitol building in Columbus, and 6.5 mi upstream from Olentangy River.  
 DRAINAGE AREA.--1,044 mi<sup>2</sup>.  
 PERIOD OF RECORD.--January 1921 to current year.  
 GAGE.--Water-stage recorder. Monthend contents only for some periods, published in WSP 1305. Daily readings have been obtained by city of Columbus, Division of Water, since 1908. Datum of gage is 680.38 ft National Geodetic Vertical Datum, adjustment of 1929 (levels by city of Columbus). Prior to Oct. 4, 1940 nonrecording gage at same site and datum.  
 REMARKS.--Reservoir formed by concrete dam; dam completed and storage began in 1905. Usable capacity, 3,700 acre-ft between elevations, 735.4 ft (lowest outlets), and 753.4 ft (crest of spillway), based on survey made in 1935. Flashboards installed July 28, 1945, additional capacity, 750 acre-ft, between elevations, 753.4 ft (crest of spillway) and 755.6 ft (crest of flashboards). Dead storage below elevation, 735.4 ft, 239 acre-ft. Figures given herein represent usable contents. Water is used for municipal supply of city of Columbus and recreational purposes. Capacity table computed from data furnished by city of Columbus.  
 EXTREMES FOR PERIOD OF RECORD.-- Maximum contents, 7,490 acre-ft Jan. 22, 1959, elevation, 763.91 ft; minimum, 38 acre-ft Jan. 24, 1945, elevation, 735.78 ft.  
 EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,660 acre-ft July 18, elevation, 758.97 ft; minimum, 3,910 acre-ft Nov. 15, elevation, 754.03 ft.
- 03228400 HOOVER RESERVOIR AT CENTRAL COLLEGE.**--Lat 40°06'30", long 82°52'59", in T.2 N., R.17 W., Franklin County, Hydrologic Unit 05060001, in gate house of dam on Big Walnut Creek, 0.5 mi northeast of Central College, and 12 mi northeast of Columbus.  
 DRAINAGE AREA.--190 mi<sup>2</sup>.  
 PERIOD OF RECORD.--March 1955 to current year.  
 REVISED RECORDS.--WRD OH-78-1: 1975 (M).  
 GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Sept. 10, 1956, nonrecording gage at same site and datum.  
 REMARKS.--Reservoir formed by earthfill dam with concrete spillway; dam completed in 1954 and storage began in March 1955. Usable capacity, 60,130 acre-ft between elevations 830.0 ft (lowest outlet), and 890.0 ft (crest of spillway). Additional flood-control storage above elevation 890.0 ft by bascule gates installed in May 1970, 25,750 acre-ft. Dead storage below elevation 830.0 ft, 214 acre-ft. Figures given herein represent usable contents. Reservoir is used for municipal supply of city of Columbus and for recreational purposes. Outflow is controlled mostly by operation of valves in tunnel through dam, but above spillway level bascule gates can be used. Capacity table computed from data furnished by city of Columbus.  
 EXTREMES FOR PERIOD OF RECORD: Maximum contents, 83,260 acre-ft, Feb. 24, 1975, elevation, 897.26 ft; minimum, 19,010 acre-ft Mar. 1, 1964, elevation, 868.58 ft.  
 EXTREMES FOR CURRENT YEAR: Maximum contents, 73,010 acre-ft July 27, elevation, 894.33 ft; minimum, 32,700 acre-ft Dec. 1, elevation, 878.13 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
<b>03220500 O'SHAUGHNESSY RESERVOIR</b>									
Sept. 30.....	843.64	13,490	--	<b>03221500 GRIGGS RESERVOIR</b>					
Oct. 31.....	842.80	12,870	-620	754.81	4,180	--	<b>03228400 HOOVER RESERVOIR</b>		
Nov. 30.....	841.74	12,140	-730	755.15	4,290	+110	879.75	35,690	--
Dec. 31.....	843.61	13,470	+1,330	755.26	4,330	+40	878.58	33,520	-2,170
				754.14	3,950	-380	878.15	32,740	-780
CAL YR 1991	-	-	-4,340	-	-	-1,990	878.62	33,590	+850
Jan. 31.....	847.90	16,970	+3,500	755.06	4,260	+310	879.42	35,070	+1,480
Feb. 28.....	848.77	17,830	+860	755.12	4,280	+20	879.67	35,540	+470
Mar. 31.....	848.52	17,580	-250	755.45	4,390	+110	883.95	44,560	+9,020
Apr. 30.....	848.59	17,650	+70	755.86	4,530	+140	887.57	53,670	+9,110
May. 31.....	848.99	18,050	+400	755.72	4,490	-40	886.85	51,800	-1,870
June 30.....	848.12	17,180	-870	755.27	4,330	-160	886.03	49,690	-2,110
July 31.....	849.30	18,370	+1,190	756.75	4,840	+510	894.12	72,290	+22,600
Aug. 31.....	848.79	17,850	-520	755.45	4,390	-450	892.96	68,540	-3,750
Sept. 30.....	849.02	18,080	+230	755.19	4,310	-80	891.92	65,440	-3,100
WTR YR 1992..	--	--	+4,590			+130			+29,750

**03237280 UPPER TWIN CREEK AT MCGAW, OH  
(HYDROLOGIC BENCH-MARK STATION)**

LOCATION.--Lat 38°38'37", long 83°12'57", Scioto County, Hydrologic Unit 05090201, on right bank, 0.3 mi downstream from Brown Run, 0.3 mi upstream from Tucker Run, 0.7 mi upstream from bridge on U.S. Highway 52 at McGaw, 2.7 mi northeast of Buena Vista, and 3.2 mi upstream from mouth.

DRAINAGE AREA.--12.2 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 538.41 ft above National Geodetic Vertical Datum of 1929 (revised). Ohio Department of Highways bench mark. Prior to July 21, 1972 at site 0.7 mi downstream at datum 18.41 ft lower. July 21, 1972 to September 30, 1984 at same site at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 2-17, Jan. 16-22, Feb. 6-12. Records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 3, 1960 reached a stage of 11.62 ft, discharge, 7,230 ft<sup>3</sup>/s, on basis of contracted-opening and flow over road measurement of peak flow.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.18	.83	5.1	6.5	10	26	4.9	12	.56	17	1.2
2	.21	.15	92	4.2	5.1	9.6	21	4.3	10	.51	13	.95
3	.22	.12	222	56	4.9	8.9	18	35	5.7	.65	16	.91
4	.22	.10	17	55	4.5	8.1	17	19	10	.61	22	.75
5	.29	.08	4.6	28	3.9	7.4	15	16	16	4.2	15	.61
6	.24	.07	1.5	18	2.7	29	14	14	15	4.6	11	.56
7	.21	.07	.99	12	2.2	125	13	13	13	1.4	6.8	.51
8	.26	.06	.81	7.5	1.7	73	12	17	25	1.1	3.2	.44
9	.25	.06	.86	6.0	1.4	41	12	302	23	.81	2.6	.43
10	.25	.06	2.2	4.5	1.1	62	12	81	17	.65	1.7	.40
11	.23	.05	1.7	3.3	1.1	52	12	40	14	3.9	1.2	.36
12	.22	.05	1.3	2.6	1.1	36	11	28	11	11	1.1	.33
13	.22	.05	6.3	2.3	23	26	9.4	37	7.9	2.9	.92	.29
14	.20	.05	27	8.5	36	21	9.2	107	3.5	1.4	.81	.27
15	.24	.04	15	9.7	32	18	8.4	41	2.5	1.1	3.9	.25
16	.19	.04	7.3	6.0	30	16	5.0	26	1.6	.85	10	.24
17	.18	.04	3.6	4.0	22	15	5.6	21	1.3	3.2	2.5	.24
18	.16	.04	1.7	3.0	20	68	11	35	23	4.6	1.4	.31
19	.16	.01	1.0	2.3	17	341	11	45	18	2.1	1.1	6.8
20	.17	.00	.86	2.2	13	54	11	28	13	1.4	.94	1.4
21	.18	.02	.95	2.1	10	28	46	21	9.5	2.3	.75	1.1
22	.17	.28	1.0	2.0	8.9	25	32	18	3.6	3.2	.69	12
23	.17	1.9	49	54	9.1	24	21	14	1.9	4.0	.91	9.9
24	.18	1.7	36	48	26	21	18	13	1.5	3.4	.76	2.6
25	.18	1.3	17	27	22	19	15	11	1.3	1.8	.68	1.2
26	.18	1.1	9.8	19	19	18	13	10	1.0	51	.67	.83
27	.19	.96	5.4	16	16	21	11	8.1	.90	33	.79	.70
28	.20	.86	3.4	13	14	19	11	3.9	.74	27	13	.57
29	.19	.78	5.7	10	13	18	9.5	4.3	.62	17	12	.51
30	.18	.74	6.3	8.9	---	20	9.1	16	.58	13	6.0	.47
31	.18	---	6.2	8.2	---	39	---	14	---	20	1.9	---
TOTAL	6.32	10.96	549.30	448.4	367.2	1273.0	439.2	1047.5	264.14	223.24	170.32	47.13
MEAN	.20	.37	17.7	14.5	12.7	41.1	14.6	33.8	8.80	7.20	5.49	1.57
MAX	.29	1.9	222	56	36	341	46	302	25	51	22	12
MIN	.16	.00	.81	2.0	1.1	7.4	5.0	3.9	.58	.51	.67	.24
CFSM	.02	.03	1.45	1.19	1.04	3.37	1.20	2.77	.72	.59	.45	.13
IN.	.02	.03	1.67	1.37	1.12	3.88	1.34	3.19	.81	.68	.52	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	2.79	6.47	17.7	16.3	24.1	30.0	30.1	19.1	6.84	4.15	3.36	3.51																		
MAX	16.8	29.0	81.6	44.0	60.9	90.7	66.7	74.6	35.3	30.8	38.0	32.5																		
(WY)	1990	1986	1979	1979	1975	1964	1965	1983	1979	1986	1979	1979																		
MIN	.000	.000	.000	.44	4.42	4.39	4.41	1.63	.043	.071	.092	.010																		
(WY)	1964	1964	1964	1981	1978	1969	1971	1991	1988	1964	1988	1983																		

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1963 - 1992
ANNUAL TOTAL	5000.20	4846.71	
ANNUAL MEAN	13.7	13.2	13.7
HIGHEST ANNUAL MEAN			31.9
LOWEST ANNUAL MEAN			5.15
HIGHEST DAILY MEAN	224	341	750
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.03	.00
INSTANTANEOUS PEAK FLOW		1440	3500
INSTANTANEOUS PEAK STAGE		9.30	10.20
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.12	1.09	1.12
ANNUAL RUNOFF (INCHES)	15.25	14.78	15.21
10 PERCENT EXCEEDS	38	28	31
50 PERCENT EXCEEDS	.97	4.6	3.2
90 PERCENT EXCEEDS	.00	.20	.08

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

## 03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: March 1985 to current year.

pH: March 1985 to current year.

WATER TEMPERATURES: Water years 1963-66, 1967-70, 1972-1982, 1984 to current year.

SUSPENDED SEDIMENT DISCHARGE: Water years 1964-69 (periodic), 1969 to 1973 (daily), 1974 to current year (periodic).

INSTRUMENTATION.--Water temperature recorder since July 1972.

REMARKS.--Interruptions in the water-quality record were due to malfunctions of the instrument or no flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 279 microsiemens Nov. 5, 1988; minimum, 40 microsiemens July 1, 1986.

pH: Maximum recorded, 9.4, units Aug. 24, 1992; minimum recorded, 5.5 units Sept. 3, 1988.

WATER TEMPERATURES: Maximum, 38.5°C July 22, 1986; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 229 microsiemens Apr. 26; minimum recorded, 50 microsiemens May 17.

pH: Maximum recorded, 9.4 units Aug. 24, 25; minimum recorded, 6.2 units Nov. 27.

WATER TEMPERATURE: Maximum recorded, 30.5°C July 11; minimum recorded 0°C several times during winter period.

## UPPER TWIN CREEK BASIN

## 03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI, KF AGAR, PER (COLS./ 100 ML) (31673)
OCT											
08...	1030	0.26	144	7.5	12.5	10.5	0.40	10.4	93	K13	49
NOV											
05...	1120	0.08	148	7.5	7.0	6.0	0.50	11.4	92	K7	150
DEC											
03...	1000	86	80	7.5	5.5	8.5	11	11.6	101	650	K>10000
JAN											
07...	1015	12	87	7.1	6.0	5.5	0.90	12.9	103	K16	74
FEB											
04...	1100	4.8	89	7.9	14.5	4.0	0.60	12.4	96	K5	58
MAR											
11...	1020	51	74	7.6	0.5	6.0	--	13.8	112	K13	46
APR											
14...	1045	9.1	91	7.5	16.0	10.5	0.90	9.6	86	K11	K13
MAY											
19...	1015	45	78	7.2	17.0	14.5	1.3	9.1	89	100	150
JUN											
08...	1115	24	90	7.5	22.0	16.5	1.5	8.0	82	140	660
JUL											
07...	1030	1.4	112	7.2	21.0	20.0	0.50	8.4	93	49	92
AUG											
25...	1010	0.62	115	7.4	23.5	22.0	0.40	7.9	91	K11	260
SEP											
21...	1115	0.95	120	7.3	25.5	20.5	1.4	7.5	85	92	390

DATE	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CaCO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT											
08...	52	8.9	7.1	3.8	2.1	26	0	22	30	4.5	0.20
NOV											
05...	58	9.8	8.0	4.4	1.9	32	0	28	30	3.9	<0.10
DEC											
03...	30	5.0	4.2	1.7	1.9	14	0	14	18	1.8	<0.10
JAN											
07...	31	5.5	4.3	2.3	1.6	13	0	13	25	2.4	0.20
FEB											
04...	32	5.2	4.5	2.4	1.5	13	0	12	28	1.9	0.20
MAR											
11...	--	--	--	--	--	11	0	10	--	--	--
APR											
14...	32	5.4	4.5	2.4	1.8	12	0	12	30	1.8	0.10
MAY											
19...	25	4.1	3.7	2.1	1.5	12	0	11	20	1.5	<0.10
JUN											
08...	31	5.1	4.5	2.4	1.9	17	0	14	24	1.6	<0.10
JUL											
07...	40	6.8	5.6	3.2	2.1	25	0	21	27	1.9	<0.10
AUG											
25...	43	7.4	5.9	3.4	2.4	27	0	23	28	2.3	<0.10
SEP											
21...	45	7.8	6.2	3.5	2.4	29	0	26	27	2.4	<0.10

K Results based on colony count outside the acceptable range.



## UPPER TWIN CREEK BASIN

## 03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	132	129	130	150	147	148	131	122	127	97	94	95
2	133	129	131	150	145	148	131	82	120	98	95	96
3	133	128	131	148	143	145	96	80	88	95	77	88
4	135	130	133	144	141	143	105	96	101	85	79	83
5	137	129	133	153	139	144	109	105	107	88	85	87
6	138	134	135	142	139	140	111	108	109	92	89	90
7	138	135	137	142	138	140	111	108	110	92	91	91
8	138	130	134	140	138	139	114	110	111	94	92	93
9	136	130	132	150	137	142	113	109	111	95	92	93
10	135	130	132	148	135	140	111	109	109	98	95	95
11	133	130	132	139	137	138	112	109	110	97	95	96
12	133	130	131	139	136	138	117	110	114	98	95	96
13	132	130	131	140	137	139	113	101	108	98	95	96
14	136	130	132	142	139	140	102	92	96	98	92	95
15	135	130	132	144	140	141	102	98	100	94	92	93
16	135	129	133	147	142	144	102	101	102	94	92	93
17	138	130	133	145	142	143	106	102	103	93	91	92
18	137	132	135	146	141	143	107	104	105	95	92	93
19	138	133	136	147	145	146	108	104	105	100	94	97
20	139	133	136	---	---	---	107	105	107	97	94	95
21	137	132	135	149	146	147	107	103	104	96	94	95
22	137	134	135	149	133	143	106	103	104	95	94	95
23	138	135	137	165	137	145	107	80	91	95	79	87
24	141	137	139	137	132	134	92	84	88	87	81	84
25	143	139	140	133	131	132	93	92	93	178	85	90
26	147	140	142	131	129	129	96	94	95	89	85	87
27	147	140	144	129	126	128	96	94	95	90	87	88
28	148	144	146	129	124	127	97	94	95	91	89	89
29	150	146	148	129	126	128	95	94	95	92	89	91
30	153	146	148	130	127	128	97	95	95	92	90	91
31	151	148	149	---	---	---	95	94	95	95	92	93
MONTH	153	128	136	165	124	139	131	80	103	178	77	92
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	97	93	95	95	93	95	99	95	96	146	135	139
2	97	94	95	96	95	95	101	94	98	150	123	128
3	97	94	95	98	95	96	113	103	108	130	98	105
4	98	95	96	98	97	98	104	97	102	105	97	101
5	98	96	97	100	98	98	104	95	98	102	97	99
6	98	95	97	100	89	94	102	98	100	113	97	102
7	101	96	98	92	80	85	106	102	103	130	113	117
8	99	97	98	89	83	85	105	101	103	137	108	123
9	102	95	98	87	85	86	113	104	108	108	74	84
10	103	98	100	87	80	84	117	105	110	94	85	90
11	102	86	100	82	79	84	121	111	115	114	93	97
12	102	99	101	84	82	83	126	117	121	96	93	95
13	100	87	95	85	84	84	124	113	119	104	83	99
14	90	87	88	85	85	85	122	92	106	98	83	91
15	92	86	89	86	85	85	94	92	93	119	92	96
16	93	92	92	87	85	86	96	93	95	100	89	96
17	93	92	93	88	86	87	98	95	96	86	50	66
18	94	92	93	89	72	85	98	95	97	97	73	91
19	95	93	95	76	66	71	100	98	99	105	83	91
20	95	93	95	80	75	78	100	98	99	90	86	87
21	95	92	94	85	79	81	96	85	90	92	90	91
22	96	95	95	88	82	85	90	85	87	95	92	93
23	96	92	95	88	82	85	92	87	89	98	95	96
24	95	92	93	89	85	87	104	91	95	99	98	98
25	94	92	93	85	84	84	109	103	106	100	98	99
26	94	92	93	86	83	84	229	105	116	102	100	101
27	95	92	94	85	84	84	125	117	121	102	100	102
28	95	94	95	85	84	84	143	125	129	103	101	102
29	104	93	95	85	84	84	149	132	138	104	98	101
30	---	---	---	89	83	84	142	130	137	101	96	98
31	---	---	---	96	86	92	---	---	---	102	98	100
MONTH	104	86	95	100	66	86	229	85	106	150	50	99

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	102	100	101	---	---	---	---	---	---	124	121	122
2	104	101	102	---	---	---	---	---	---	124	119	122
3	105	102	103	---	---	---	---	---	---	123	121	121
4	105	101	102	---	---	---	---	---	---	124	121	122
5	105	102	103	---	---	---	---	---	---	125	122	123
6	105	103	104	---	---	---	---	---	---	128	123	124
7	105	101	103	---	---	---	---	---	---	128	123	125
8	101	92	95	---	---	---	---	---	---	129	124	127
9	94	92	93	---	---	---	---	---	---	130	125	128
10	97	94	95	---	---	---	---	---	---	130	127	129
11	98	97	98	---	---	---	---	---	---	130	124	127
12	101	98	100	---	---	---	---	---	---	129	124	127
13	105	101	103	---	---	---	---	---	---	129	124	127
14	105	103	104	---	---	---	---	---	---	130	126	128
15	107	105	105	---	---	---	---	---	---	131	128	129
16	110	106	108	---	---	---	---	---	---	131	128	130
17	112	110	110	---	---	---	---	---	---	133	129	131
18	111	74	100	---	---	---	---	---	---	133	113	130
19	109	99	104	---	---	---	---	---	---	129	120	123
20	111	109	110	---	---	---	---	---	---	126	122	124
21	111	110	111	---	---	---	---	---	---	---	---	---
22	111	110	111	---	---	---	---	---	---	---	---	---
23	113	110	111	---	---	---	---	---	---	---	---	---
24	114	111	113	---	---	---	---	---	---	---	---	---
25	115	112	114	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	128	122	125	---	---	---
27	---	---	---	---	---	---	128	104	124	---	---	---
28	---	---	---	---	---	---	123	113	117	---	---	---
29	---	---	---	---	---	---	121	114	117	---	---	---
30	---	---	---	---	---	---	123	119	121	---	---	---
31	---	---	---	---	---	---	124	121	122	---	---	---
MONTH	115	74	104	---	---	---	128	104	121	133	113	126
YEAR	229	50	108									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	8.8	8.0	8.1	8.2	7.7	7.9	7.6	6.9	7.1	7.8	7.1	7.3
2	8.6	8.0	8.2	8.2	7.6	7.8	7.4	6.9	7.1	7.5	7.1	7.2
3	8.6	8.0	8.1	8.1	7.4	7.7	7.5	7.2	7.4	7.4	6.9	7.1
4	8.4	8.0	8.1	7.9	7.2	7.5	7.5	6.6	7.0	7.1	6.9	7.0
5	8.2	8.0	8.1	7.8	7.2	7.3	7.3	6.5	6.8	7.2	6.9	7.0
6	8.5	8.1	8.2	8.1	7.2	7.5	7.2	6.6	6.8	7.2	6.9	7.0
7	8.6	8.1	8.3	7.7	6.9	7.2	7.2	6.5	6.8	7.2	6.9	6.9
8	8.5	7.6	8.0	7.6	6.7	7.0	7.1	6.8	7.0	7.3	6.9	7.0
9	7.9	7.5	7.7	7.9	6.4	7.0	7.3	7.1	7.2	7.4	7.0	7.1
10	8.0	7.5	7.7	7.9	6.5	7.2	7.8	7.2	7.4	7.3	7.0	7.1
11	7.8	7.5	7.6	7.5	6.7	7.1	7.8	7.2	7.3	7.3	7.1	7.1
12	7.9	7.5	7.6	7.6	6.7	6.9	7.6	7.1	7.3	7.5	7.1	7.2
13	8.0	7.5	7.6	7.6	6.6	7.0	7.7	7.4	7.5	7.3	7.1	7.1
14	8.0	7.4	7.6	7.7	6.5	7.0	8.0	7.6	7.8	7.8	7.1	7.3
15	8.2	7.5	7.7	7.7	6.7	7.1	7.9	7.5	7.7	7.8	7.3	7.4
16	7.8	7.3	7.5	7.3	6.9	7.1	7.9	7.5	7.6	7.5	7.2	7.3
17	7.8	7.3	7.5	7.6	6.8	7.1	7.9	7.5	7.7	7.8	7.2	7.4
18	7.8	7.3	7.5	8.0	6.9	7.3	8.1	7.6	7.8	7.7	7.2	7.4
19	7.9	7.3	7.5	7.5	7.1	7.2	7.9	7.6	7.7	7.5	7.1	7.3
20	7.9	7.2	7.5	---	---	---	8.1	7.6	7.8	7.8	7.2	7.5
21	7.7	7.2	7.4	7.4	7.0	7.2	7.9	7.6	7.6	7.7	7.3	7.5
22	7.9	7.2	7.5	7.9	7.0	7.3	7.8	7.6	7.7	7.8	7.3	7.4
23	7.8	7.3	7.5	8.1	7.2	7.6	7.7	7.5	7.6	7.6	7.3	7.4
24	8.1	7.5	7.6	8.1	6.9	7.3	7.9	7.5	7.6	7.6	7.2	7.4
25	8.1	7.6	7.7	7.8	6.5	7.1	7.8	7.3	7.5	7.7	7.3	7.4
26	8.3	7.5	7.8	7.2	6.4	6.7	7.7	7.3	7.5	7.9	7.4	7.6
27	8.1	7.6	7.8	7.3	6.2	6.7	7.6	7.2	7.4	7.9	7.5	7.6
28	8.2	7.6	7.9	7.9	6.9	7.2	7.5	7.2	7.3	8.1	7.5	7.7
29	8.4	7.7	7.9	7.8	7.0	7.2	7.5	7.2	7.3	7.9	7.5	7.7
30	8.4	7.7	7.9	7.5	7.0	7.2	7.3	7.1	7.2	8.0	7.5	7.7
31	8.5	7.8	8.0	---	---	---	7.6	7.1	7.3	7.8	7.6	7.7
MONTH	8.8	7.2	7.8	8.2	6.2	7.2	8.1	6.5	7.4	8.1	6.9	7.3



03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.5	16.5	18.5	15.5	12.0	13.5	10.5	8.5	9.5	5.0	3.5	4.0
2	21.5	16.0	18.5	12.5	8.0	10.5	8.5	7.0	8.0	4.5	3.0	3.5
3	22.0	17.0	19.0	8.0	6.0	7.5	9.5	7.5	9.0	6.5	4.5	5.5
4	23.5	17.5	20.0	6.5	3.5	5.0	7.5	4.5	6.0	7.0	6.5	6.5
5	19.5	16.0	18.5	5.5	3.0	4.0	6.0	4.0	5.0	6.5	6.0	6.0
6	17.0	13.5	15.0	7.5	4.5	6.0	7.5	5.0	6.0	6.0	5.5	5.5
7	15.0	11.0	13.0	7.5	5.0	6.5	8.0	5.0	6.5	6.0	4.0	5.0
8	15.0	10.0	12.0	6.0	3.5	4.5	10.0	8.0	9.0	5.0	3.0	4.0
9	16.5	11.0	13.5	5.0	3.0	3.5	11.0	8.5	10.5	7.0	4.5	6.0
10	17.5	12.0	14.5	6.5	2.5	4.5	8.5	6.0	7.5	6.0	4.5	5.5
11	16.5	14.0	15.0	6.5	4.0	5.0	7.5	5.0	6.0	5.5	3.0	4.0
12	16.5	13.0	14.5	6.0	2.5	4.5	8.5	6.0	7.0	4.5	2.5	3.5
13	16.0	12.0	13.5	7.0	4.5	5.5	9.5	9.0	9.5	5.5	4.5	5.0
14	15.5	10.0	12.5	8.5	3.0	6.0	10.0	6.5	9.0	6.5	2.5	5.0
15	16.0	13.0	14.5	11.0	6.0	8.5	6.0	4.5	5.5	3.5	1.5	2.5
16	13.5	10.0	12.0	11.0	9.5	10.5	5.0	3.5	4.0	1.0	.0	.0
17	12.5	8.0	10.0	9.0	6.0	7.5	6.0	3.0	4.5	2.0	.0	.5
18	14.0	9.0	11.0	11.5	6.5	9.0	4.5	2.5	3.5	1.0	.0	.5
19	13.5	10.5	12.5	12.0	10.5	11.5	3.0	1.0	2.0	.5	.0	.0
20	12.5	7.5	10.0	---	---	---	4.0	1.5	2.5	2.0	.0	1.0
21	12.5	8.0	10.0	13.5	12.0	13.0	5.0	3.0	4.0	3.0	.0	1.5
22	15.0	9.0	12.0	11.5	11.0	11.5	4.5	3.0	4.0	3.0	1.0	2.0
23	15.0	11.5	13.5	13.0	10.0	11.5	6.5	4.5	5.5	3.5	1.5	2.5
24	19.0	13.5	15.5	10.0	6.5	8.0	6.5	4.5	5.5	3.5	1.5	2.5
25	19.0	14.5	16.5	7.0	5.0	6.0	5.0	3.5	4.0	3.0	1.0	2.0
26	19.5	14.5	17.0	6.0	3.5	4.5	4.5	3.0	3.5	4.0	2.0	2.5
27	18.0	15.5	16.5	5.5	3.5	4.5	5.0	2.5	3.5	3.5	1.0	2.0
28	20.0	16.5	18.0	8.0	5.5	6.5	4.5	3.5	4.0	4.0	1.5	2.5
29	19.0	15.0	17.0	10.5	6.5	8.0	5.0	4.5	5.0	4.0	1.5	2.5
30	18.5	14.5	16.5	11.5	8.5	10.0	5.0	4.5	5.0	4.0	1.5	2.5
31	18.0	14.5	16.5	---	---	---	5.5	4.5	5.0	4.0	3.5	3.5
MONTH	23.5	7.5	14.5	15.5	2.5	7.5	11.0	1.0	6.0	7.0	.0	3.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.0	2.0	3.0	8.0	3.0	5.0	7.5	5.5	6.5	17.5	10.5	13.5
2	4.0	.5	2.0	10.5	4.5	7.0	6.5	4.5	5.5	18.5	13.0	15.5
3	4.5	1.0	2.5	12.0	6.5	8.5	7.5	3.0	5.0	16.5	13.0	14.5
4	5.5	2.5	3.5	11.0	7.0	9.0	6.0	4.5	5.0	13.5	10.5	12.0
5	5.0	2.5	3.5	12.0	8.5	10.0	10.5	4.0	6.5	11.5	10.5	11.0
6	5.0	1.0	2.5	11.0	9.5	10.0	9.5	4.5	7.0	11.5	9.0	10.5
7	3.0	1.5	2.5	11.0	9.5	10.0	13.5	7.0	9.5	15.0	9.0	11.5
8	3.0	1.5	2.0	10.5	9.0	9.5	15.0	8.0	11.0	12.5	10.5	11.5
9	3.0	.0	1.5	11.0	7.5	9.5	15.0	9.0	11.5	11.5	10.5	11.0
10	3.0	.0	1.5	10.5	7.0	9.5	17.0	10.5	13.0	14.5	10.0	12.0
11	4.0	1.5	2.5	7.0	5.0	6.0	17.5	10.5	13.5	17.0	11.0	13.5
12	3.5	1.5	2.5	5.5	4.0	4.5	15.0	10.5	12.5	20.0	12.0	15.5
13	3.0	2.0	2.0	5.5	3.0	4.0	15.0	8.0	11.0	18.0	14.0	15.5
14	4.5	3.0	4.0	4.5	3.0	3.5	10.5	9.0	10.0	16.0	12.5	14.0
15	6.5	4.0	5.0	6.5	3.0	4.5	13.0	9.0	10.5	16.5	13.0	14.0
16	6.0	5.0	5.5	7.0	2.0	4.0	15.5	10.0	12.5	21.0	13.0	16.5
17	5.5	4.0	4.5	7.0	3.5	5.5	16.0	12.5	14.0	25.0	14.0	18.5
18	8.0	5.0	6.0	7.0	6.0	6.5	16.5	12.5	14.0	17.5	15.0	16.0
19	6.5	5.5	6.0	7.5	5.5	6.5	17.0	12.5	15.0	16.0	14.0	15.0
20	5.5	4.0	5.0	7.0	5.0	6.0	19.5	14.0	16.5	17.0	14.5	15.5
21	7.0	3.5	5.0	8.0	5.0	6.5	16.5	13.0	14.5	19.5	14.5	16.5
22	8.5	4.5	6.0	6.5	5.5	6.5	13.5	11.0	12.5	21.0	14.5	17.0
23	6.0	4.5	5.5	7.5	4.5	6.0	16.0	10.0	13.0	22.0	15.0	17.5
24	7.5	6.0	6.5	9.0	4.0	6.0	17.0	12.5	14.5	17.0	14.0	15.5
25	7.5	6.5	7.0	6.0	4.5	5.5	13.5	10.5	12.0	19.5	12.5	15.0
26	6.5	4.5	5.5	8.5	6.0	7.0	10.5	9.5	10.0	18.5	13.0	15.0
27	7.5	4.0	5.5	6.5	5.0	5.5	11.0	9.5	10.0	17.0	13.0	14.5
28	9.0	5.0	7.0	10.0	4.5	6.5	12.5	9.0	10.5	20.0	12.0	15.0
29	7.5	4.5	6.0	7.0	5.5	6.0	14.0	8.0	11.0	14.5	13.0	13.5
30	---	---	---	7.0	6.0	6.5	15.5	10.5	12.5	14.5	12.5	13.5
31	---	---	---	9.5	5.5	7.0	---	---	---	15.5	13.0	14.0
MONTH	9.0	.0	4.0	12.0	2.0	6.5	19.5	3.0	11.0	25.0	9.0	14.5





## WHITEOAK CREEK BASIN

## 03238500 WHITEOAK CREEK NEAR GEORGETOWN, OH

LOCATION.--Lat 38°51'29", long 83°55'43", Brown County, Hydrologic Unit 05090201, on left bank 150 ft upstream from diversion dam for Georgetown water treatment plant, 0.7 mi upstream from Town Run, 1.4 mi southwest of Georgetown, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--218 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1923 to November 1935, October 1939 to current year.

REVISED RECORDS.--WSP 728: 1924-31. WSP 758: 1933. WSP 1908: Drainage area. WRD OH-74-1: 1973 (P)

GAGE.--Water-stage recorder. Datum of gage is 604.20 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 12, 1972 nonrecording gage at a site 1.0 mi downstream at datum 35.24 ft lower. See WSP 2108 for history of changes prior to Dec. 8, 1940.

REMARKS.--Estimated daily discharges: Jan. 17-23. Records good except those below 30 ft<sup>3</sup>/s and for periods of estimated daily discharges, which are poor. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1970 to 1974. Satellite telemeter at this station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	16	14	96	103	74	362	96	31	12	22	8.8
2	4.3	12	33	75	83	67	189	80	18	11	19	6.0
3	3.9	9.1	1490	2500	69	63	135	71	12	30	14	13
4	3.5	5.9	287	1930	65	59	114	68	10	20	22	10
5	4.0	6.8	80	351	62	58	117	67	10	24	19	10
6	.67	6.8	50	160	62	173	105	70	19	40	14	9.2
7	.62	6.8	33	105	58	5840	90	72	53	30	12	6.3
8	.62	6.8	28	81	55	1660	87	65	34	18	11	5.8
9	.88	6.8	24	72	52	436	84	3220	29	13	11	7.2
10	1.2	6.8	21	68	42	1890	86	1130	21	57	9.7	6.7
11	.87	6.8	17	62	38	1520	226	209	17	60	10	3.1
12	.00	7.1	15	57	41	353	175	101	13	144	8.8	3.7
13	.00	8.1	125	56	88	211	105	70	13	49	8.6	3.1
14	.12	8.8	1790	3260	492	150	84	57	51	23	7.7	2.3
15	.64	9.6	293	764	397	128	77	41	54	19	192	1.8
16	.87	13	97	179	501	107	77	29	24	13	47	1.4
17	1.2	13	63	90	179	94	236	24	15	12	18	1.2
18	1.2	13	50	78	121	763	325	23	47	24	12	22
19	2.6	13	31	70	113	6830	1230	23	664	144	7.9	117
20	3.1	14	26	60	99	832	295	23	139	84	7.0	41
21	3.1	15	27	54	82	300	261	20	61	50	6.0	15
22	3.3	15	28	48	74	200	426	14	40	465	5.8	498
23	4.1	15	499	44	67	178	160	10	29	72	5.8	233
24	4.1	13	614	619	169	131	106	10	26	37	5.1	60
25	4.1	12	161	151	212	106	86	8.9	26	22	4.9	22
26	4.1	11	87	115	122	137	76	8.8	23	132	3.5	10
27	4.6	11	65	79	92	328	71	7.9	23	570	4.0	7.6
28	6.7	11	56	82	78	299	538	7.7	19	141	53	5.1
29	7.7	12	173	76	74	166	213	8.2	15	61	50	4.8
30	8.0	13	354	74	---	274	120	17	13	34	29	3.3
31	14	---	165	80	---	1900	---	30	---	29	14	---
TOTAL	98.99	318.2	6796	11536	3690	25327	6256	5681.5	1549	2440	653.8	1138.4
MEAN	3.19	10.6	219	372	127	817	209	183	51.6	78.7	21.1	37.9
MAX	14	16	1790	3260	501	6830	1230	3220	664	570	192	498
MIN	.00	5.9	14	44	38	58	71	7.7	10	11	3.5	1.2

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1992, BY WATER YEAR (WY)

	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	66.0	166	302	426	493	552	424	260	140	101	91.7	83.9																																																								
MAX	580	1103	1427	1487	1281	1822	1133	1127	599	598	531	1220																																																								
(WY)	1984	1986	1991	1950	1955	1963	1973	1933	1946	1980	1926	1979																																																								
MIN	.071	.17	1.64	1.67	12.2	41.5	31.6	10.9	4.55	1.02	1.35	.17																																																								
(WY)	1941	1931	1964	1977	1934	1941	1971	1934	1988	1930	1951	1985																																																								

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1925 - 1992
ANNUAL TOTAL	92148.99	65484.89	
ANNUAL MEAN	252	179	258
HIGHEST ANNUAL MEAN			583
LOWEST ANNUAL MEAN			82.4
HIGHEST DAILY MEAN	7110	Feb 7	19400
LOWEST DAILY MEAN	.00	Oct 12	.00
ANNUAL SEVEN-DAY MINIMUM	.53	Oct 8	.00
INSTANTANEOUS PEAK FLOW		8820	Mar 19 a
INSTANTANEOUS PEAK STAGE		7.18	Mar 19
INSTANTANEOUS LOW FLOW			.00
10 PERCENT EXCEEDS	540	307	528
50 PERCENT EXCEEDS	47	40	43
90 PERCENT EXCEEDS	3.4	4.7	2.5

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.







LITTLE MIAMI RIVER BASIN

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	STREP-TOCOCOCI, KF AGAR PER (COLS./100 ML) (31673)
NOV 06...	1315	222	784	8.6	7.0	5.5	2.8	12.3	99	K7	K20
JAN 08...	1020	811	560	8.3	3.5	4.0	7.2	13.3	102	430	410
MAY 27...	1030	516	731	8.6	22.0	17.0	3.3	6.0	63	190	K52
JUL 08...	1020	324	811	8.4	29.0	24.0	13	8.7	105	3800	180
SEP 16...	1030	214	711	8.5	25.5	22.0	6.9	8.3	95	130	100

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
NOV 06...	300	73	28	53	4.5	260	9	227	66	100	0.40
JAN 08...	250	64	22	18	3.2	231	0	189	46	36	0.30
MAY 27...	300	73	28	35	3.8	278	6	239	58	63	0.30
JUL 08...	300	75	28	46	4.0	286	3	239	63	92	0.30
SEP 16...	320	80	29	47	4.4	299	6	255	56	78	0.30

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS N) (70300)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
NOV 06...	2.7	454	2.70	0.030	<0.010	0.40	0.660	0.660	0.600	<10	61
JAN 08...	4.7	302	2.90	0.060	0.060	0.40	0.220	0.170	0.160	10	46
MAY 27...	3.6	430	3.10	0.030	0.030	0.70	0.290	0.290	0.280	<10	67
JUL 08...	4.6	476	3.00	0.040	0.040	0.40	0.400	0.370	0.330	<10	71
SEP 16...	4.2	458	2.40	0.020	0.030	0.50	0.430	0.360	0.340	20	71

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 06...	<3	7	8	7	<10	2	<1	<1.0	340	<6	5
JAN 08...	<3	20	<4	7	<10	<1	<1	<1.0	300	<6	11
MAY 27...	<3	<3	<4	11	<10	2	<1	<1.0	420	<6	17
JUL 08...	<3	<3	<4	8	<10	<1	<1	<1.0	430	<6	38
SEP 16...	<3	18	8	14	<10	3	<1	<1.0	380	<6	23

K Results based on colony count outside the acceptable range.

03247050 EAST FORK LITTLE MIAMI RIVER NEAR BATAVIA, OH

LOCATION.--Lat 39°03'36", long 84°10'32", Clermont County, Hydrologic Unit 05090202, on right bank on Elk Lick Road, 230 ft upstream from unnamed right bank tributary, 1,400 ft upstream from Lucy Run, 1.3 mi south of Batavia, and at mile 15.7.

DRAINAGE AREA.--352 mi<sup>2</sup>, includes that of unnamed tributary.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 571.68 ft above National Geodetic Vertical Datum of 1929. Prior to July 17, 1968, nonrecording gage 1,100 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by William H. Harsha reservoir, formerly East Fork Lake, since 1977. Water-quality data collected at this site 1965 to 1977. Satellite telemeter at station operated for U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 28,700 ft<sup>3</sup>/s Apr. 2, 1970, gage height 20.31 ft; minimum daily, 0.14 ft<sup>3</sup>/s Sept. 23, 27, 1967. Maximum discharge since start of construction of East Fork Dam 31,000 ft<sup>3</sup>/s Aug. 30, 1974, gage height, 20.80 ft in gage well, 21.8 ft from floodmarks, result of failure of cofferdam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1964 reached a stage of 21.46 ft at site 1,100 ft downstream from information by local resident, discharge, about 32,000 ft<sup>3</sup>/s, from flood study.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	44	171	240	183	99	1100	199	49	30	221	32
2	31	44	230	161	188	99	1090	202	47	30	114	32
3	32	44	1010	763	153	99	870	203	46	32	63	33
4	34	44	1850	1150	104	99	370	175	45	32	67	33
5	36	44	1050	1120	121	99	332	134	44	36	85	37
6	36	44	171	1410	143	111	187	118	44	36	85	41
7	35	44	139	1790	135	354	89	89	47	33	72	69
8	34	42	108	1270	104	1110	72	92	52	32	46	115
9	34	42	63	360	103	1740	47	381	62	32	49	144
10	34	42	55	237	93	1800	52	854	60	31	69	145
11	34	44	42	104	81	1750	58	1130	62	37	69	145
12	33	44	42	159	81	1730	52	1120	63	153	65	145
13	33	44	96	156	119	1520	51	1110	63	287	56	124
14	33	44	253	377	261	834	49	710	65	286	42	65
15	35	44	372	1120	399	418	49	197	65	291	42	65
16	34	44	678	1810	474	329	55	92	65	181	38	66
17	34	43	890	1780	546	212	73	75	65	85	30	58
18	33	42	532	1500	546	238	88	75	134	244	30	88
19	33	42	248	841	542	943	334	75	300	487	30	102
20	33	43	33	436	540	2210	552	73	399	588	30	126
21	33	48	40	436	540	2550	441	73	325	591	30	126
22	34	63	61	319	334	1780	279	66	256	591	30	396
23	34	63	268	201	148	1100	279	50	187	563	30	581
24	34	63	447	310	219	1090	271	49	106	543	30	503
25	34	63	441	431	275	879	240	49	90	463	30	558
26	34	63	441	431	275	444	128	44	55	570	30	463
27	61	63	261	431	196	348	92	36	41	697	33	361
28	98	75	65	270	100	452	109	34	37	1660	38	277
29	78	100	86	121	99	452	131	37	30	2050	32	75
30	45	107	208	149	---	485	158	50	30	1400	32	61
31	44	---	327	183	---	752	---	42	---	389	32	---
TOTAL	1200	1576	10678	20066	7102	26126	7698	7634	2934	12480	1650	5066
MEAN	38.7	52.5	344	647	245	843	257	246	97.8	403	53.2	169
MAX	98	107	1850	1810	546	2550	1100	1130	399	2050	221	581
MIN	30	42	33	104	81	99	47	34	30	30	30	32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1992, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	238	278	539	518	701	718	612	572	246	209	164	212				
MAX (WY)	727	948	1288	1342	1581	1714	1201	2099	822	657	1117	1468				
MIN (WY)	14.8	50.3	35.9	5.53	137	99.8	49.8	33.5	32.8	19.0	20.8	18.5				

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1977 - 1992	
ANNUAL TOTAL	164140		104210			
ANNUAL MEAN	450		285		416	
HIGHEST ANNUAL MEAN					760	
LOWEST ANNUAL MEAN					211	
HIGHEST DAILY MEAN	3900		2550		4700	
LOWEST DAILY MEAN	30		30		3.4	
ANNUAL SEVEN-DAY MINIMUM	30		30		4.6	
INSTANTANEOUS PEAK FLOW			2780		11900	
INSTANTANEOUS PEAK STAGE			11.07		15.40	
10 PERCENT EXCEEDS	1460		845		1310	
50 PERCENT EXCEEDS	97		99		105	
90 PERCENT EXCEEDS	34		33		27	

03247500 EAST FORK LITTLE MIAMI RIVER AT PERINTOWN, OH

LOCATION.--Lat 39°08'14", long 84°14'17", Clermont County, Hydrologic Unit 05090202, on right bank at upstream wingwall of highway bridge at Perintown, 0.2 mi downstream from Sugarcamp Run, 5 mi upstream from mouth, and at mile 6.4.

DRAINAGE AREA.--476 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1915 to September 1917, October 1917 to May 1920 (gage heights only), January 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 507.03 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good except for those records above 5000 ft<sup>3</sup>/s which are fair. Occasional regulation by Stonelick Lake 14 mi upstream. Surface area at spillway level, 171 acres. Flow regulated by William H. Harsha Reservoir, formerly East Fork Lake, since 1977. Water-quality data collected at this site 1964 to 1977. U.S. Army Corps of Engineers Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,400 ft<sup>3</sup>/s Mar. 10, 1964, gage height, 23.84 ft; minimum daily, 0.4 ft<sup>3</sup>/s July 24, 1930, Sept 11, 12, 23, 1939; minimum gage height, -0.18 ft Oct. 3-7, 1917. Maximum discharge since start of construction of East Fork Dam 23,200 ft<sup>3</sup>/s Aug. 30, 1974, gage height, 19.52 ft, result of failure of cofferdam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	52	209	411	235	116	1520	221	66	36	260	35
2	38	51	683	316	217	114	1420	219	61	36	140	34
3	38	50	2310	3250	196	111	1230	214	55	43	94	34
4	38	50	2220	1960	122	110	489	197	55	42	74	35
5	39	50	1510	1540	124	109	483	141	58	55	91	37
6	40	50	259	1650	158	167	313	141	72	81	90	65
7	39	50	191	2080	156	2150	152	99	122	43	88	59
8	39	50	174	1720	109	1610	142	102	120	37	100	113
9	39	49	91	533	102	2200	113	2020	88	35	86	130
10	39	48	83	419	98	2650	163	1220	79	39	190	130
11	39	47	63	158	85	2370	264	1420	76	88	98	126
12	39	47	60	188	81	2160	154	1370	74	431	75	124
13	39	47	355	269	145	1940	116	1350	73	300	69	122
14	39	47	881	2740	322	1140	101	1020	106	266	51	68
15	40	47	631	1520	795	550	95	277	99	262	50	62
16	40	47	780	2160	959	429	96	117	78	233	48	61
17	40	47	1220	2100	732	311	175	91	73	407	39	60
18	40	47	772	1850	687	1120	201	88	301	513	36	73
19	40	47	456	1110	689	2570	418	86	531	494	36	172
20	40	48	68	510	683	2550	751	84	498	584	35	109
21	39	51	72	500	659	2890	744	80	411	565	35	109
22	39	64	98	422	485	2270	440	78	277	557	34	804
23	39	66	616	349	187	1410	357	60	238	523	34	666
24	39	66	871	518	249	1370	333	62	125	697	33	497
25	39	66	696	565	332	1190	301	56	115	469	34	540
26	39	66	645	529	318	725	168	53	73	1250	34	469
27	41	66	480	512	265	622	118	44	55	907	62	322
28	94	68	109	397	124	675	177	40	49	1680	83	301
29	94	107	235	162	124	610	182	41	40	2160	48	91
30	58	145	363	176	---	1050	175	127	37	1900	38	67
31	53	---	526	234	---	1510	---	80	---	477	36	---
TOTAL	1356	1736	17727	30848	9438	38799	11391	11198	4105	15210	2221	5515
MEAN	43.7	57.9	572	995	325	1252	380	361	137	491	71.6	184
MAX	94	145	2310	3250	959	2890	1520	2020	531	2160	260	804
MIN	37	47	60	158	81	109	95	40	37	35	33	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1992, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	295	429	779	705	972	1042	884	796	343	287	216	257				
MAX	980	1446	2108	1637	2162	1623	1738	2792	1218	947	1220	1869				
(WY)	1984	1986	1991	1991	1990	1979	1989	1990	1982	1980	1979	1979				
MIN	18.5	49.3	54.1	15.3	168	138	73.5	48.4	35.6	32.4	38.6	30.1				
(WY)	1983	1988	1977	1977	1987	1983	1986	1988	1988	1984	1987	1983				

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1977 - 1992	
ANNUAL TOTAL	228388		149544			
ANNUAL MEAN	626		409		582	
HIGHEST ANNUAL MEAN					963	
LOWEST ANNUAL MEAN					266	
HIGHEST DAILY MEAN	4110	Jan 8	3250	Jan 3	10800	Sep 14 1979
LOWEST DAILY MEAN	32	Aug 3	33	Aug 24	14	Jan 21 1977
ANNUAL SEVEN-DAY MINIMUM	37	Sep 26	34	Aug 20	14	Jan 28 1977
INSTANTANEOUS PEAK FLOW			5820		29000	
INSTANTANEOUS PEAK STAGE			8.96		21.00	
10 PERCENT EXCEEDS	2230		1360		1950	
50 PERCENT EXCEEDS	153		124		157	
90 PERCENT EXCEEDS	39		39		35	

## 03259000 MILL CREEK AT CARTHAGE, OH

LOCATION.--Lat 39°12'07", long 84°28'16", in SW 1/4 sec. 1, R.1, T.3, Hamilton County, Hydrologic Unit 05090203, on right bank at Anthony Wayne Avenue Bridge in Carthage, 1.0 mi downstream from West Fork Mill Creek, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--115 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1946 to current year.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 507.00 ft above Ohio River datum. Prior to Oct. 1, 1954 at same site at datum 512.00 ft above Ohio River Datum. Oct. 1, 1954 to Sept. 30, 1977 at site 100 ft downstream at datum 512.00 ft above Ohio River Datum. Oct. 1, 1977 to Oct. 16, 1984 at site 100 ft upstream at present datum.

REMARKS.--Estimated daily discharges: Dec. 21-27, Jan. 5-8, Feb. 2-12, Apr. 25-May 1, May 13-July 1, July 13 to Aug. 10. Records good except for periods of estimated discharge and Mar. 18 to Sept. 30 which are poor. Some inter-basin transfers of water between Mill Creek and Great Miami River basins by industrial and municipal operations. Flow regulated by West Fork Mill Creek Reservoir, 6.9 mi upstream, beginning 1953. Water-quality data collected at this site 1965 to 1977. Because of water-basin transfers and regulations, statistics are not published.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,030 ft<sup>3</sup>/s Sept. 14, 1979, gage height, 21.82 ft present datum, from rating curve extended above 4,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; no flow many days in 1947-48.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,380 ft<sup>3</sup>/s Aug. 27, gage height 10.60 ft; minimum daily, 7.3 ft<sup>3</sup>/s Oct. 7, Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	14	170	21	20	16	98	32	22	28	35	50
2	11	12	677	151	18	18	81	22	20	44	15	33
3	11	7.5	789	695	17	19	66	26	19	248	14	32
4	10	9.0	272	369	16	21	77	28	45	77	13	29
5	21	8.8	195	90	15	20	52	38	50	85	12	31
6	9.7	9.5	23	43	14	29	37	27	80	44	11	151
7	7.3	12	16	31	14	244	38	21	96	15	10	247
8	8.5	13	15	25	13	113	62	46	40	61	27	87
9	8.3	9.5	20	26	12	76	78	301	21	40	13	37
10	71	8.5	12	23	12	308	259	38	19	71	520	33
11	20	9.5	9.6	18	12	137	133	41	18	112	246	33
12	17	11	9.6	17	11	83	192	33	18	573	157	22
13	18	11	291	30	27	81	32	27	17	70	119	18
14	25	12	222	684	25	66	14	24	17	40	34	18
15	46	11	120	252	129	35	19	22	25	210	25	21
16	23	9.8	22	263	97	27	31	21	18	86	20	25
17	11	9.1	20	50	81	26	18	80	17	270	15	24
18	8.5	11	21	36	78	323	70	52	380	90	15	151
19	11	22	13	24	56	387	91	30	90	30	15	119
20	8.4	27	12	37	52	166	46	25	23	70	14	59
21	7.5	20	35	37	63	56	89	21	18	140	13	103
22	10	13	18	39	46	49	64	20	19	35	11	540
23	11	10	170	87	28	43	47	19	23	28	10	62
24	12	7.9	60	51	27	36	39	21	21	64	10	35
25	16	10	27	31	22	64	31	16	20	30	12	29
26	14	10	20	46	21	79	36	16	16	130	46	23
27	31	11	18	50	18	62	64	16	14	90	1700	18
28	20	15	26	31	18	44	45	17	14	37	1280	18
29	15	14	111	25	24	57	35	45	16	150	664	18
30	12	332	85	27	---	155	44	140	22	266	158	17
31	14	---	38	25	---	153	---	25	---	165	82	---
TOTAL	518.2	680.1	3537.2	3334	986	2993	1988	1290	1218	3399	5316	2083
MEAN	16.7	22.7	114	108	34.0	96.5	66.3	41.6	40.6	110	171	69.4
MAX	71	332	789	695	129	387	259	301	380	573	1700	540
MIN	7.3	7.5	9.6	17	11	16	14	16	14	15	10	17

CAL YR 1991 TOTAL 40372.7 MEAN 111 MAX 1450 MIN 7.3  
WTR YR 1992 TOTAL 27342.5 MEAN 74.7 MAX 1700 MIN 7.3

## 03260700 BOKENGEHALAS CREEK NEAR DE GRAFF, OH

LOCATION.--Lat 40°20'50", long 83°53'28", in E. 1/2 sec. 3, R.14, T.2, Logan County, Hydrologic Unit 05080001, on right bank at downstream side of county road bridge, 2 mi downstream from Bluejacket Creek, 2.8 mi northeast of De Graff, and 4 mi upstream from mouth.

DRAINAGE AREA.--36.3 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1957 to May 31, 1992. Prior to October 1962, published as Buckongahelas Creek near Degraff. (Discontinued).

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Non-recording Gage. Datum of gage is 1,008.76 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1991 water stage recorder at same site.

REMARKS.--Estimated daily discharges: Oct. 21-28, Dec. 18-22, Jan. 17-22, Apr. 2-8, 29-30. Records poor. Diurnal fluctuation caused by municipal plant operation in Bellefontaine, 9.8 mi upstream. Since storage capacity is small, daily flows are not affected appreciably. Water-quality data collected at this site 1965 to 1973.

COOPERATION.--Discharge measurements furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 6.83 ft; minimum daily, 2.2 ft<sup>3</sup>/s Sept. 29, 30, Oct. 7, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge estimated at 290 ft<sup>3</sup>/s Apr. 18, gage height, 3.60 ft. Minimum daily discharge 5.6 ft<sup>3</sup>/s Oct. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	8.0	9.0	7.6	12	13	31	27	---	---	---	---
2	7.2	7.2	8.5	8.0	10	13	28	25	---	---	---	---
3	6.4	6.8	22	12	10	13	24	25	---	---	---	---
4	7.2	7.6	14	15	12	13	22	25	---	---	---	---
5	7.2	8.0	13	10	12	13	20	22	---	---	---	---
6	6.8	7.6	11	10	12	15	18	21	---	---	---	---
7	6.4	7.2	10	9.0	12	24	18	21	---	---	---	---
8	7.2	9.0	8.5	9.0	12	29	18	20	---	---	---	---
9	7.2	7.2	8.5	9.5	11	23	18	27	---	---	---	---
10	6.4	7.6	8.0	9.0	15	31	16	20	---	---	---	---
11	6.1	7.6	8.0	8.5	12	31	17	20	---	---	---	---
12	13	7.6	8.5	8.5	11	25	20	19	---	---	---	---
13	7.6	7.2	8.0	9.0	10	20	18	17	---	---	---	---
14	8.5	8.0	7.6	56	9.9	19	18	17	---	---	---	---
15	12	7.6	7.6	24	10	17	18	16	---	---	---	---
16	12	8.0	9.4	17	20	17	17	15	---	---	---	---
17	8.5	7.2	8.5	14	17	17	72	14	---	---	---	---
18	6.4	7.2	7.2	12	17	17	238	31	---	---	---	---
19	8.5	15	6.6	11	41	44	108	31	---	---	---	---
20	7.6	13	6.2	11	32	50	72	21	---	---	---	---
21	7.2	11	6.0	10	25	39	68	18	---	---	---	---
22	6.4	10	7.0	10	21	37	58	15	---	---	---	---
23	5.8	9.0	9.0	20	19	36	53	34	---	---	---	---
24	5.6	9.0	8.5	19	17	28	45	31	---	---	---	---
25	6.2	8.5	8.0	29	17	25	110	18	---	---	---	---
26	8.2	7.6	7.6	20	16	28	38	18	---	---	---	---
27	7.0	8.5	8.0	15	16	29	31	17	---	---	---	---
28	7.0	9.0	7.6	12	15	29	28	15	---	---	---	---
29	8.0	7.6	8.0	12	14	28	26	14	---	---	---	---
30	6.1	7.2	8.0	10	---	35	29	102	---	---	---	---
31	8.0	---	7.6	12	---	34	---	77	---	---	---	---
TOTAL	234.9	252.0	275.4	439.1	457.9	792	1297	793	---	---	---	---
MEAN	7.58	8.40	8.88	14.2	15.8	25.5	43.2	25.6	---	---	---	---
MAX	13	15	22	56	41	50	238	102	---	---	---	---
MIN	5.6	6.8	6.0	7.6	9.9	13	16	14	---	---	---	---
CFSM	.21	.23	.24	.39	.43	.70	1.19	.70	---	---	---	---
IN.	.24	.26	.28	.45	.47	.81	1.33	.81	---	---	---	---

CAL YR 1991 TOTAL 12095.2 MEAN 33.1 MAX 276 MIN 5.4 CFSM .91 IN. 12.40



## GREAT MIAMI RIVER BASIN

## 03261950 LORAMIE CREEK NEAR NEWPORT, OH

LOCATION.--Lat 40°18'25", long 84°23'02", in SE 1/4 sec, 24, T.11 N., R.4 E., Shelby County, Hydrologic Unit 05080001, right bank at downstream side of bridge on Cardo Roman Road, 1.1 mi northwest of Newport, 3 mi south of Fort Loramie, 3 mi downstream from Mile Creek, and at mile 16.5.

DRAINAGE AREA.--152 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WRD Ohio 1971: 1966(M). WRD Ohio 1985-1: 1984 (M).

GAGE.--Water-stage recorder. Datum of gage is 926.57 ft above National Geodetic Vertical Datum of 1929. October 1, 1964 to September 30, 1980 water-stage recorder at same site at datum 0.43 ft higher.

REMARKS.--Estimated daily discharges: Dec. 27 to Jan. 2, Jan. 9-14, 16-24, Jan. 26 to Feb. 4, Feb. 6-15. Records fair, except for period of estimated record which are poor. Some regulation by Lake Loramie 5 mi upstream, capacity, 13,000 acre-ft. Sediment data collected at this site 1967 to 1975.

COOPERATION.--Gage-height tapes and 9 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 17.0 ft and flood of Jan. 21, 1959 a stage of 14.2 ft, from flood profile furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	5.0	3.4	1.4	10	12	23	169	110	10	219	20
2	1.2	5.5	2.8	1.5	14	9.3	20	85	72	7.9	125	12
3	1.4	4.5	14	6.5	20	12	37	24	49	12	79	11
4	1.7	3.9	7.9	18	30	11	116	15	38	8.5	54	47
5	2.6	3.3	4.1	8.8	49	9.7	23	17	62	5.2	37	26
6	3.0	3.2	3.0	4.2	35	25	9.7	18	334	7.1	26	15
7	2.0	4.7	2.7	2.9	20	47	9.5	14	196	7.3	19	14
8	1.1	5.4	2.3	2.3	16	42	10	15	109	4.7	18	12
9	.98	5.4	2.8	1.7	13	36	9.4	22	63	4.6	16	12
10	1.4	5.0	2.2	1.6	11	52	12	21	39	7.1	18	31
11	2.2	4.3	2.7	1.5	9.0	75	61	16	26	8.6	35	46
12	3.9	3.8	1.8	1.4	7.4	57	49	14	18	11	29	22
13	4.1	3.8	3.9	1.3	6.2	42	80	15	13	3260	20	12
14	3.3	4.3	3.3	5.0	5.8	33	23	15	13	5100	17	7.8
15	3.5	4.4	2.2	38	35	30	14	13	55	3830	11	5.8
16	4.0	5.4	1.8	23	176	21	19	8.9	33	2700	8.2	4.7
17	4.3	5.2	1.7	10	121	27	899	7.2	18	2970	6.3	3.8
18	4.1	4.3	1.8	6.8	85	130	1180	9.0	683	2870	5.3	35
19	4.2	12	1.7	4.0	91	351	1030	9.5	649	1370	5.5	230
20	4.3	15	1.7	3.0	114	400	600	6.1	272	544	5.8	120
21	3.9	16	2.0	2.8	93	153	871	6.7	133	428	4.7	82
22	3.1	9.2	2.6	2.8	67	63	736	5.0	67	294	4.0	330
23	2.7	4.2	3.9	10	57	101	331	4.6	44	205	3.6	171
24	3.1	2.6	5.2	50	45	25	135	18	380	429	3.4	82
25	5.0	1.9	4.0	86	31	19	141	13	178	512	3.6	45
26	23	1.5	3.1	37	27	49	110	7.4	80	314	3.7	29
27	15	1.4	1.9	28	19	36	60	5.7	45	214	23	24
28	7.5	2.0	1.8	20	17	94	115	4.3	27	125	255	19
29	4.7	2.3	1.7	16	21	17	126	3.6	18	75	110	13
30	5.3	2.7	1.6	13	---	95	155	73	14	65	50	8.5
31	5.9	---	1.5	11	---	58	---	168	---	332	30	---
TOTAL	133.48	152.2	97.1	419.5	1245.4	2132.0	7004.6	823.0	3838	25731.0	1245.1	1490.6
MEAN	4.31	5.07	3.13	13.5	42.9	68.8	233	26.5	128	830	40.2	49.7
MAX	23	16	14	86	176	400	1180	169	683	5100	255	330
MIN	.98	1.4	1.5	1.3	5.8	9.3	9.4	3.6	13	4.6	3.4	3.8

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	36.4	91.9	197	146	231	285	232	126	91.1	94.3	38.7	27.9																	
MAX	360	656	802	551	613	826	700	403	561	830	288	186																	
(WY)	1987	1973	1991	1974	1975	1978	1972	1967	1981	1992	1979	1972																	
MIN	.75	1.32	1.63	.63	14.1	38.9	23.1	7.14	1.47	.51	.22	.53																	
(WY)	1965	1981	1977	1977	1978	1981	1971	1988	1988	1965	1965	1966																	

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1965 - 1992	
ANNUAL TOTAL	33995.57		44311.98			
ANNUAL MEAN	93.1		121			
HIGHEST ANNUAL MEAN					133	
LOWEST ANNUAL MEAN					249	
HIGHEST DAILY MEAN	2140	Jan 1	5100	Jul 14	5100	Jul 14 1992
LOWEST DAILY MEAN	.36	Sep 17	.98	Oct 9	.10	Aug 15 1965
ANNUAL SEVEN-DAY MINIMUM	.64	Sep 16	1.6	Dec 27	.13	Sep 9 1966
INSTANTANEOUS PEAK FLOW			5540		6500	
INSTANTANEOUS PEAK STAGE			14.29		14.31	
INSTANTANEOUS LOW FLOW			.98		.10	
10 PERCENT EXCEEDS	263		177		342	
50 PERCENT EXCEEDS	8.2		14		22	
90 PERCENT EXCEEDS	1.5		2.3		1.4	

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.

03262000 LORAMIE CREEK AT LOCKINGTON, OH

LOCATION.--Lat 40°12'35", long 84°14'32", in NE 1/4 sec. 30, T.7 N., R.6 E., Shelby County, Hydrologic Unit 05080001, on left bank at downstream side of county road bridge, 1,300 ft downstream from Lockington Dam, 0.5 mi northwest of Lockington, and at mile 1.9.

DRAINAGE AREA.--257 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1915 to current year.

REVISED RECORDS.--WSP 923: 1916. WSP 1908: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 800.03 ft above National Geodetic Vertical Datum of 1929. Prior to July 3, 1924, nonrecording gage at same site at datum 75.96 ft higher. July 3, 1924, to Aug. 17, 1926, nonrecording gage, and Aug. 18 to Sept. 30, 1926, water-stage recorder, at same site at datum 74.96 ft higher.

REMARKS.--Estimated daily discharges: Dec. 12 to Feb. 15. Records fair except those for periods of estimated discharge which are poor. Slight regulation by Lake Loramie 18 mi upstream, capacity, 13,000 acre-ft. Flood flow regulated by Lockington retarding basin beginning in 1921.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft<sup>3</sup>/s May 7, 1916, gage height, 86.4 ft, present datum, from rating curve extended above 5,400 ft<sup>3</sup>/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 91.6 ft, present datum, discharge, 25,600 ft<sup>3</sup>/s, at site upstream from Turtle Creek, drainage area, 211 mi<sup>2</sup>, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	7.6	5.0	3.1	18	22	61	221	164	34	346	47
2	8.3	3.0	9.4	3.0	21	15	54	156	107	27	201	41
3	3.7	4.0	20	7.0	25	14	52	92	77	32	140	37
4	3.6	11	17	17	39	16	123	58	60	29	108	48
5	1.4	10	19	25	55	14	79	52	65	25	80	74
6	.85	5.4	12	17	50	15	37	52	281	39	64	42
7	3.9	5.4	5.8	10	35	51	35	47	234	36	53	39
8	11	5.8	5.7	7.2	23	62	36	39	148	33	47	51
9	10	8.1	13	4.9	19	49	34	46	91	29	46	39
10	6.5	2.5	12	4.0	16	82	30	45	67	27	117	52
11	1.4	6.3	6.5	3.4	13	149	47	36	51	23	83	79
12	2.9	11	10	3.0	12	97	90	37	38	24	72	55
13	10	6.0	17	2.6	10	76	108	41	38	3590	53	40
14	7.7	6.3	12	15	9.6	56	80	42	34	5480	46	31
15	2.3	5.9	8.4	50	13	50	46	41	58	5280	41	27
16	1.8	3.0	6.0	30	187	43	43	32	57	4620	36	25
17	4.5	5.9	4.5	20	152	36	1410	24	36	3650	33	24
18	10	11	3.6	12	108	99	1880	28	853	3580	30	24
19	9.0	13	3.4	9.8	113	611	1610	36	1380	2150	29	199
20	3.6	18	3.3	8.4	143	589	903	33	434	832	29	175
21	8.9	21	3.4	7.6	118	259	1450	29	210	644	31	97
22	4.7	18	3.6	7.0	89	112	1330	23	129	452	29	291
23	5.6	10	4.5	6.6	66	147	618	16	86	298	27	233
24	8.2	9.5	5.5	50	57	82	236	25	779	388	27	126
25	2.4	13	6.2	84	41	50	223	37	294	631	28	76
26	8.9	9.3	5.0	50	34	64	179	33	152	513	30	51
27	18	7.8	4.4	33	27	67	150	32	96	333	138	42
28	16	3.7	3.9	26	22	126	162	28	60	210	287	39
29	13	7.5	3.6	22	21	68	183	26	49	149	190	34
30	7.5	13	3.3	20	---	69	175	86	43	125	100	29
31	7.1	---	3.2	19	---	170	---	245	---	431	62	---
TOTAL	212.55	262.0	240.2	577.6	1536.6	3360	11464	1738	6171	33714	2603	2167
MEAN	6.86	8.73	7.75	18.6	53.0	108	382	56.1	206	1088	84.0	72.2
MAX	18	21	20	84	187	611	1880	245	1380	5480	346	291
MIN	.85	2.5	3.2	2.6	9.6	14	30	16	34	23	27	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1992, BY WATER YEAR (WY)

	MEAN	48.2	110	228	327	356	462	386	203	170	115	56.7	50.3
MAX (WY)	1987	1973	1991	1937	1950	1978	1922	1933	1958	1992	1979	1926	
MIN (WY)	1964	1964	1964	1977	1964	1941	1971	1941	1988	1936	1936	1983	

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1921 - 1992

ANNUAL TOTAL	65635.55	64045.95	
ANNUAL MEAN	180	175	209
HIGHEST ANNUAL MEAN			413
LOWEST ANNUAL MEAN			53.0
HIGHEST DAILY MEAN	5800	Jan 1	5480 Jul 14
LOWEST DAILY MEAN	.85	Oct 6	.85 Oct 6
ANNUAL SEVEN-DAY MINIMUM	3.8	Dec 17	3.5 Dec 27
INSTANTANEOUS PEAK FLOW			5620 Jul 13
INSTANTANEOUS PEAK STAGE			84.23 Jul 13
INSTANTANEOUS LOW FLOW			.85 Oct 6
10 PERCENT EXCEEDS	475	239	530
50 PERCENT EXCEEDS	20	35	41
90 PERCENT EXCEEDS	4.0	4.8	7.0



03263000 GREAT MIAMI RIVER AT TAYLORSVILLE, OH

LOCATION.--Lat 39°52'27", long 84°09'45", in SW 1/4 sec. 36, R.8, T.2, Montgomery County, Hydrologic Unit 05080001, on right upstream face of Taylorsville Dam, 0.8 mi north of Taylorsville, 2.1 mi east of Vandalia, 9.5 mi upstream from Stillwater River, and at mile 90.9.

DRAINAGE AREA.--1,149 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1914 to September 1917 (published as Miami River at Tadmor), October 1921 to current year (published as Miami River at Taylorsville 1921-62). Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site at Tadmor, January 1914 to July 1920, are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 743: 1924(M). WSP 853: 1930, 1937. WSP 923: 1922-24. WSP 1385: 1916. WSP 1908: Drainage area. GAGE.--Water-stage recorder. Datum of gage is 760.11 ft above National Geodetic Vertical Datum of 1929, levels by Miami Conservancy District. Prior to October 1921, nonrecording gage at site 1.7 mi upstream at different datum. Jan. 1, 1922, to Nov. 11, 1925, nonrecording gage at site 50 ft downstream at outlet works of Taylorsville Dam at datum 60.03 ft lower, October 1921 to September 1978 at site 650 ft downstream at datum 60.03 ft lower.

REMARKS.--Estimated daily discharges: Jan. 14-25, Feb. 10-16. Records good except those for periods of estimated record, which are fair. Flood flow regulated by retarding basins on Great Miami River, just downstream from station and on Loramie Creek 28 mi upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake 64 mi upstream from station, and by Lake Loramie 47 mi upstream from station on Loramie Creek; combined capacity, 58,900 acre-ft.

COOPERATION.--Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 25.4 ft at site at Tadmor, discharge, 127,000 ft<sup>3</sup>/s computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	89	106	80	198	198	607	921	1310	355	2280	450
2	71	80	115	80	194	205	494	848	943	312	2020	384
3	73	74	225	158	185	184	482	693	708	351	1550	348
4	74	84	162	164	191	167	455	594	607	308	1160	335
5	67	95	155	156	201	163	467	584	535	271	863	363
6	69	83	126	162	233	163	362	479	575	325	696	373
7	68	76	105	131	237	166	313	450	883	298	584	323
8	68	67	83	108	218	222	282	424	864	274	564	341
9	75	69	74	102	194	277	310	407	688	238	503	319
10	91	67	75	99	150	304	288	425	535	214	633	310
11	92	82	74	95	130	399	273	366	445	214	778	321
12	88	90	70	90	110	518	301	320	372	246	669	346
13	81	85	90	88	100	414	470	306	326	3580	508	305
14	93	93	91	250	88	325	489	296	294	12400	422	259
15	100	95	83	500	90	277	367	295	287	13100	395	237
16	89	93	78	470	180	250	322	297	432	13000	380	219
17	88	111	79	400	608	240	2310	271	349	12700	350	206
18	88	203	78	350	524	266	5480	413	1210	13000	314	211
19	90	185	72	300	441	846	7520	472	6600	10800	283	344
20	89	178	65	270	659	1540	4620	441	2720	6000	265	789
21	84	167	73	260	666	1240	4070	362	1460	4370	254	541
22	86	132	71	250	520	786	4210	306	1000	3460	242	436
23	79	118	99	240	417	605	2860	274	752	2380	237	640
24	83	97	101	230	354	624	1900	546	1320	1810	230	552
25	98	89	89	350	315	454	1440	676	1350	2140	244	399
26	140	88	88	454	278	396	1190	595	930	2300	248	299
27	136	85	86	307	234	413	1040	441	742	2160	959	256
28	120	89	82	250	226	422	1120	364	584	1630	1220	232
29	115	78	101	216	212	582	1100	315	475	1230	1350	217
30	98	97	90	198	---	500	935	510	407	1230	888	211
31	89	---	83	198	---	586	---	1260	---	2440	579	---
TOTAL	2753	3039	2969	7006	8153	13732	46077	14951	29703	113136	21668	10566
MEAN	88.8	101	95.8	226	281	443	1536	482	990	3650	699	352
MAX	140	203	225	500	666	1540	7520	1260	6600	13100	2280	789
MIN	67	67	65	80	88	163	273	271	287	214	230	206
CFSM	.08	.09	.08	.20	.24	.39	1.34	.42	.86	3.18	.61	.31
IN.	.09	.10	.10	.23	.26	.44	1.49	.48	.96	3.66	.70	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1992, BY WATER YEAR (WY)

MEAN	301	559	1020	1493	1610	1974	1815	1107	925	587	345	262
MAX	3089	4228	4587	8024	4473	5158	5525	4092	5567	3650	2287	3608
(WY)	1927	1973	1991	1937	1950	1963	1922	1933	1958	1992	1973	1926
MIN	45.8	63.9	65.3	46.8	94.4	205	361	137	91.2	70.8	68.3	46.5
(WY)	1964	1935	1977	1977	1964	1941	1971	1941	1988	1936	1965	1963

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1922 - 1992	
ANNUAL TOTAL	310031		273753			
ANNUAL MEAN	849		748		997	
HIGHEST ANNUAL MEAN					2005	
LOWEST ANNUAL MEAN					292	
HIGHEST DAILY MEAN	20700	Jan 1	13100	Jul 15	30200	Jan 22 1959
LOWEST DAILY MEAN	55	Sep 22	65	Dec 20	25	Jul 18 1977
ANNUAL SEVEN-DAY MINIMUM	70	Sep 18	70	Oct 2	31	Feb 4 1977
INSTANTANEOUS PEAK FLOW			13700	Jul 14	31400	Jan 22 1959
INSTANTANEOUS PEAK STAGE			17.79	Jul 14	75.44	Jan 22 1959
INSTANTANEOUS LOW FLOW			65	Dec 20	25	Jul 18 1977
ANNUAL RUNOFF (CFSM)	.74		.65		.87	
ANNUAL RUNOFF (INCHES)	10.04		8.86		11.78	
10 PERCENT EXCEEDS	2190		1310		2400	
50 PERCENT EXCEEDS	197		299		385	
90 PERCENT EXCEEDS	78		83		92	





## GREAT MIAMI RIVER BASIN

## 03266000 STILLWATER RIVER AT ENGLEWOOD, OH

LOCATION.--Lat 39°52'10", long 84°16'57", in NW 1/4 sec. 23, T.5 N., R.5 E., Montgomery County, Hydrologic Unit 05080001, on right bank 1,000 ft downstream from Englewood Dam, 1 mi southeast of Englewood, and at mile 8.9.  
 DRAINAGE AREA.--650 mi<sup>2</sup>.  
 PERIOD OF RECORD.--October 1925 to current year (monthly discharge only, October 1925, published in WSP 1305).  
 REVISED RECORDS.--WSP 1908: Drainage area.  
 GAGE.--Water-stage recorder and concrete control. Datum of gage is 699.82 ft above National Geodetic Vertical Datum of 1929.  
 REMARKS.--Estimated daily discharges: Jan. 14 and Jan. 16 to Feb. 17. Records good except estimated record which is fair. Flood flow regulated by Englewood retarding basin.  
 COOPERATION.--Gage-height tapes and 6 discharge measurements furnished by Miami Conservancy District.  
 EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 85,400 ft<sup>3</sup>/s at site 1 mi downstream, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	49	63	60	130	140	238	411	466	210	3610	205
2	32	49	85	60	130	131	227	376	322	196	1100	175
3	30	46	133	89	150	122	209	337	261	207	642	163
4	27	47	109	109	170	118	199	300	248	196	455	163
5	28	43	110	154	185	116	191	282	268	180	338	167
6	26	42	93	148	203	119	182	269	571	162	275	177
7	26	43	81	116	185	118	166	245	957	161	241	159
8	26	44	71	97	140	126	158	231	697	148	240	153
9	29	43	67	90	120	124	172	244	506	143	218	144
10	33	42	64	84	110	129	168	245	365	133	207	142
11	33	42	59	75	100	138	162	225	290	125	232	141
12	31	42	55	70	100	155	158	208	250	140	197	158
13	31	42	66	69	100	147	151	203	222	859	176	136
14	35	43	64	150	100	135	149	198	206	4310	166	115
15	36	42	56	306	110	125	156	192	196	4440	158	107
16	36	43	52	248	150	115	165	186	180	3950	149	96
17	34	41	50	160	370	112	2010	185	166	3540	140	85
18	33	42	49	140	265	126	4680	227	853	5050	130	95
19	32	58	47	120	247	394	5460	236	4020	3520	127	108
20	33	74	43	105	302	748	5150	213	3550	1050	118	97
21	34	103	51	105	301	478	4240	188	1120	909	112	123
22	34	104	49	110	257	338	3750	174	681	1760	104	138
23	33	90	65	130	225	282	2120	172	503	953	100	399
24	35	77	64	150	206	244	1170	187	761	789	102	258
25	35	66	66	213	191	215	850	183	1030	1220	101	173
26	41	58	65	170	175	207	691	189	519	824	113	133
27	52	52	63	150	168	202	602	173	401	771	395	115
28	94	55	63	140	160	200	543	162	320	576	1370	101
29	81	53	76	130	150	192	481	150	259	416	931	97
30	63	62	72	130	---	202	462	218	229	357	412	90
31	53	---	66	130	---	221	---	520	---	2780	263	---
TOTAL	1180	1637	2117	4008	5200	6219	35060	7329	20417	40075	12922	4413
MEAN	38.1	54.6	68.3	129	179	201	1169	236	661	1293	417	147
MAX	94	104	133	306	370	748	5460	520	4020	5050	3610	399
MIN	26	41	43	60	100	112	149	150	166	125	100	85
CFSM	.06	.08	.11	.20	.28	.31	1.80	.36	1.05	1.99	.64	.23
IN.	.07	.09	.12	.23	.30	.36	2.01	.42	1.17	2.29	.74	.25

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1992, BY WATER YEAR (WY)

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	172	316	570	875	964	1158	1076	650	548	345	198	149	1993	1926	17.9	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992																						
MAX	1781	2215	2495	5129	2840	3147	3015	2931	4244	1489	2438	1926	1993	1926	17.9	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992																						
(WY)	1987	1973	1991	1937	1950	1963	1964	1933	1958	1929	1979	1926	1993	1926	17.9	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992																						
MIN	15.6	27.3	27.9	28.6	63.0	111	180	61.1	52.2	30.0	19.7	17.9	1963	1926	17.9	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992																						
(WY)	1964	1945	1945	1945	1964	1941	1941	1941	1934	1988	1988	1963	1993	1926	17.9	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992																						

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1926 - 1992
ANNUAL TOTAL	186079	140577	
ANNUAL MEAN	510	384	583
HIGHEST ANNUAL MEAN			1027
LOWEST ANNUAL MEAN			130
HIGHEST DAILY MEAN	8610	Jan 1	9980
LOWEST DAILY MEAN	25	Sep 21	4.8
ANNUAL SEVEN-DAY MINIMUM	27	Oct 3	9.7
INSTANTANEOUS PEAK FLOW			9980
INSTANTANEOUS PEAK STAGE		77.58	80.88
INSTANTANEOUS LOW FLOW		24	3.7
ANNUAL RUNOFF (CFSM)	.78	.59	.90
ANNUAL RUNOFF (INCHES)	10.65	8.05	12.19
10 PERCENT EXCEEDS	1240	752	1390
50 PERCENT EXCEEDS	112	150	195
90 PERCENT EXCEEDS	35	43	42



## 03267900 MAD RIVER AT ST. PARIS PIKE AT EAGLE CITY, OH

LOCATION.--Lat 39°57'51", long 83°49'54", in W 1/2 sec. 1, R. 10, T.4, Clark County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on St. Paris Pike, 0.8 mi southeast of Eagle City, 1.1 mi downstream from Moore Run, 3.1 mi upstream from Buck Creek, 3.3 mi south of Tremont City, and at mile 29.5.

DRAINAGE AREA.--310 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WRD-OH-88-1: 1987(P).

GAGE.--Water-stage recorder. Datum of gage is 904.66 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Water supply for city of Springfield is pumped from wells, adjacent to Mad River, just upstream from station. Recharge to the well field is largely by induced infiltration from Mad River and Moore Run. Pumpage, averaging 20.2 ft<sup>3</sup>/s in 1992, is returned as sewage 1.4 mi upstream from gaging station near Springfield (station 03269500). Water-quality data collected at this site 1966 to 1977. Satellite telemeter at station operated for U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 19.8 ft, from data furnished by Miami Conservancy District. Flood of Jan. 21, 1959 reached a stage of 15.7 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	119	116	114	129	129	181	193	246	168	561	195
2	113	118	131	116	128	130	167	184	203	160	454	191
3	113	117	178	141	128	131	161	176	179	164	399	192
4	113	118	137	136	129	131	159	168	171	153	369	210
5	112	118	124	131	129	127	154	164	297	160	339	196
6	112	118	121	127	128	132	152	158	262	184	316	194
7	113	118	119	125	128	145	154	153	324	148	306	190
8	113	117	116	125	127	159	150	149	312	142	351	189
9	113	116	115	127	122	150	154	158	223	137	308	183
10	123	115	113	125	122	159	149	147	191	134	334	182
11	120	114	113	123	121	155	150	142	175	134	304	175
12	119	114	112	121	119	148	145	139	163	152	276	171
13	120	113	121	123	122	143	144	137	155	2520	261	168
14	123	113	115	248	121	140	142	135	149	1140	250	165
15	127	112	112	201	131	137	143	134	146	1610	241	162
16	121	112	111	165	139	133	144	131	139	1390	235	159
17	121	110	112	159	136	135	1090	129	137	4480	228	158
18	118	111	111	146	138	150	1310	178	749	1830	223	161
19	120	120	109	150	150	279	1050	190	1080	1020	218	171
20	120	120	109	137	160	231	583	154	409	786	211	160
21	121	116	112	134	153	193	491	141	289	850	206	188
22	120	114	112	133	146	182	554	135	234	724	202	202
23	118	112	126	141	142	173	379	133	208	618	200	181
24	117	112	117	146	139	165	313	491	442	573	198	167
25	116	113	114	140	138	161	274	273	267	529	195	161
26	116	113	113	136	137	167	251	201	216	588	192	159
27	116	113	112	134	136	172	239	174	196	555	249	158
28	116	118	112	133	134	167	223	158	180	473	302	155
29	117	112	122	130	132	163	209	151	174	545	236	153
30	117	126	118	129	---	181	207	353	181	587	211	153
31	117	---	116	130	---	193	---	361	---	1110	202	---
TOTAL	3638	3462	3669	4326	3864	4961	9622	5690	8097	23764	8577	5249
MEAN	117	115	118	140	133	160	321	184	270	767	277	175
MAX	127	126	178	248	160	279	1310	491	1080	4480	561	210
MIN	112	110	109	114	119	127	142	129	137	134	192	153

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	182	231	338	330	416	445	448	388	327	274	203	167																
MAX	765	689	1020	781	946	778	717	781	788	767	451	375																
(WY)	1987	1973	1991	1974	1975	1978	1973	1980	1980	1992	1973	1979																
MIN	82.3	115	106	89.8	133	157	196	146	132	93.3	88.1	88.8																
(WY)	1989	1992	1977	1977	1992	1983	1971	1988	1988	1988	1988	1988																

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1966 - 1992	
ANNUAL TOTAL	110024		84919			
ANNUAL MEAN	301		232		312	
HIGHEST ANNUAL MEAN					468	
LOWEST ANNUAL MEAN					166	
HIGHEST DAILY MEAN	1530		4480		6000	
LOWEST DAILY MEAN	106		109		60	
ANNUAL SEVEN-DAY MINIMUM	108		111		62	
INSTANTANEOUS PEAK FLOW			7220		9700	
INSTANTANEOUS PEAK STAGE			15.08		16.68	
INSTANTANEOUS LOW FLOW			109		60	
10 PERCENT EXCEEDS	629		355		562	
50 PERCENT EXCEEDS	178		149		224	
90 PERCENT EXCEEDS	112		114		118	

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.



## GREAT MIAMI RIVER BASIN

## 03270000 MAD RIVER NEAR DAYTON, OH

LOCATION.--Lat 39°47'50", long 84°05'19", in SW 1/4 sec. 7, R. 8, T.2, Green County, Hydrologic Unit 05080001, on left bank in retarding basin 300 ft upstream from Huffman Dam, 2.3 mi downstream from Mud Run, 6.2 mi northeast of Dayton and at mile 6.1. Water-quality sampling site was on left bank 900 ft downstream.

DRAINAGE AREA.--635 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 453: 1915. WSP 743: 1929-32. WSP 1305: 1916(M), 1925(M) 1930-32(M). drainage area. WRD-OH-82-1: 1980.

GAGE.--Water-stage recorder. Datum of gage is 777.06 ft above National Geodetic Vertical Datum of 1929. Jan. 21, 1959 to Dec. 14, 1967, at site 900 ft downstream, at datum 77.01 ft lower. See WSP 1725 for history of changes prior to Jan. 21, 1959. Water-quality data collected at this site 1947-1948, 1962-1963, 1966-1980.

REMARKS.--No estimated daily discharges. Records excellent. Flood flows affected by backwater from Huffman retarding dam beginning in 1921, some regulation by C. J. Brown Reservoir 26 mi upstream on Buck Creek since 1974. Also see REMARKS for station 03269500.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft<sup>3</sup>/s Jan. 22, 1959 (based on Huffman retarding basin outflow records); maximum gage height, 87.9 ft Feb. 26, 1929 at site and datum then in use; minimum daily discharge, 94 ft<sup>3</sup>/s Aug. 6, 1934, but may have been less during period 1921-24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 14.0 ft, original site and datum, discharge 75,700 ft<sup>3</sup>/s, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	229	355	259	289	254	467	481	497	332	1010	386
2	220	234	421	264	282	250	416	449	421	320	788	413
3	218	229	702	403	277	247	381	461	377	362	752	428
4	226	231	429	367	278	246	370	408	378	310	704	414
5	238	235	377	318	294	241	353	400	452	293	581	417
6	233	233	357	281	292	254	330	385	556	333	540	397
7	231	231	294	268	289	325	319	364	547	320	524	437
8	231	231	265	258	289	326	313	357	726	290	719	438
9	226	231	260	256	269	322	378	440	498	281	590	362
10	288	231	253	255	257	365	339	370	415	277	610	348
11	272	231	247	246	253	377	325	343	373	270	664	332
12	263	231	247	241	249	338	315	333	346	320	554	323
13	246	231	309	240	262	311	298	326	330	1450	474	316
14	257	231	273	291	267	298	303	319	318	2190	442	309
15	297	231	244	660	283	287	311	309	311	1930	426	316
16	257	234	236	517	325	277	308	300	298	1760	423	338
17	247	233	233	470	300	269	1490	291	284	4130	409	331
18	242	231	231	358	305	347	2100	341	804	4200	397	327
19	238	235	226	319	331	711	2650	422	2500	1940	377	369
20	235	245	223	322	336	588	1430	356	1120	1580	371	338
21	235	239	229	297	331	480	1220	326	757	1550	363	351
22	235	254	227	292	309	424	1340	308	548	1480	356	453
23	235	260	304	310	295	395	964	312	474	1200	352	374
24	230	260	271	342	291	368	783	551	592	867	352	341
25	226	260	245	313	287	347	683	545	583	853	346	339
26	227	264	234	303	282	376	619	422	492	1480	393	340
27	227	266	231	289	275	381	623	375	419	1260	827	333
28	227	304	237	291	266	367	576	348	367	921	853	323
29	227	283	280	285	260	348	531	326	343	718	585	314
30	227	354	276	285	---	429	524	502	338	1040	453	305
31	227	---	291	286	---	520	---	662	---	1570	404	---
TOTAL	7412	7392	9007	10386	8323	11068	21059	12132	16464	35827	16639	10812
MEAN	239	246	291	335	287	357	702	391	549	1156	537	360
MAX	297	354	702	791	336	711	2650	662	2500	4200	1010	453
MIN	218	229	223	240	249	241	298	291	284	270	346	305
CFSM	.38	.39	.46	.53	.45	.56	1.11	.62	.86	1.82	.85	.57
IN.	.43	.43	.53	.61	.49	.65	1.23	.71	.96	2.10	.97	.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	453	538	753	736	947	963	935	795	698	587	434	416							
MAX	1425	1175	2027	1559	1839	1637	1428	1675	1745	1277	1235	1528							
(WY)	1987	1986	1991	1991	1975	1978	1974	1990	1981	1990	1979	1979							
MIN	216	236	236	239	287	344	444	268	192	211	172	217							
(WY)	1989	1988	1977	1977	1992	1983	1976	1988	1988	1988	1988	1987							

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1974 - 1992	
ANNUAL TOTAL	245604		166521			
ANNUAL MEAN	673		455		686	
HIGHEST ANNUAL MEAN					945	
LOWEST ANNUAL MEAN					336	
HIGHEST DAILY MEAN	3900	Jan 1	4200	Jul 18	10300	Feb 24 1975
LOWEST DAILY MEAN	194	Sep 17	218	Oct 3	112	Jul 17 1988
ANNUAL SEVEN-DAY MINIMUM	209	Sep 15	227	Oct 25	124	Jul 11 1988
INSTANTANEOUS PEAK FLOW			5700		11400	
INSTANTANEOUS PEAK STAGE			12.08		19.01	
INSTANTANEOUS LOW FLOW			218		112	
ANNUAL RUNOFF (CFSM)	1.06		.72		1.08	
ANNUAL RUNOFF (INCHES)	14.39		9.76		14.69	
10 PERCENT EXCEEDS	1450		734		1280	
50 PERCENT EXCEEDS	393		326		491	
90 PERCENT EXCEEDS	227		233		252	

03270500 GREAT MIAMI RIVER AT DAYTON, OH

LOCATION.--Lat 39°45'55", long 84°11'51", in sec. 10, R.7, T.1, Montgomery County, Hydrologic Unit 05080002, on left bank 1,000 ft downstream from Main Street Bridge in Dayton, 0.7 mi upstream from Wolf Creek, 0.8 mi downstream from Mad River, and at mile 80.0.

DRAINAGE AREA.--2,511 mi<sup>2</sup>.

PERIOD OF RECORD.--April to September 1905, January to September 1906, January 1907 to December 1909 (gage heights only), April 1913 to current year. Monthly discharge only for October 1919 to September 1921, published in WSP 1305. Gage-height records collected at Main Street Bridge since January 1892 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Dayton.

REVISED RECORDS.--WSP 1385: 1917. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929 as requested by cooperater (699.71 ft adjustment of 1929). Prior to Oct. 1, 1921, nonrecording gage at Main Street Bridge at datum 23.73 ft higher. Oct. 1, 1921, to July 24, 1931, nonrecording gage at Main Street Bridge at datum 21.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 15-24 and Feb. 11-16. Records good. Flood flow regulated by four retarding basins upstream from station beginning in 1920 on Mad River 6.5 mi upstream, on Stillwater River 10.5 mi upstream, on Great Miami River 11.5 mi upstream, and on Loramie Creek 40 mi upstream. Also see REMARKS for stations 03261500, 03261950 and 03269500. Water is diverted 6 mi upstream from station for use in Dayton; most of return flow from diversions bypasses station in Dayton sewer systems. Sediment data collected at this site 1951 to 1953. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Gage-height charts, tapes, and 7 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913 reached a stage of 29.0 ft, site and datum then in use, discharge, 250,000 ft<sup>3</sup>/s, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	321	303	523	324	525	451	1120	2030	2580	926	7190	1080
2	298	286	662	355	533	454	927	1900	1920	806	4470	961
3	256	324	1190	711	558	464	863	1700	1480	945	3310	914
4	250	331	648	629	538	431	803	1470	1400	802	2550	851
5	300	317	579	545	524	404	785	1400	1330	699	1940	869
6	292	317	527	525	576	394	704	1290	1690	718	1630	912
7	263	318	451	441	600	457	695	1190	2650	735	1420	997
8	224	304	415	398	562	481	651	1150	2550	671	1790	1040
9	236	291	398	392	495	537	843	1310	1900	699	1470	872
10	393	284	362	375	422	639	743	1210	1450	673	1520	834
11	350	289	317	374	380	711	708	1040	1210	637	1820	772
12	287	298	294	360	370	784	666	953	1050	771	1500	774
13	271	303	476	360	360	707	712	931	947	4030	1240	754
14	300	311	417	1510	360	584	791	885	874	17400	1100	681
15	337	314	330	1300	360	511	722	856	832	19400	1050	654
16	292	325	311	850	450	465	658	848	921	18700	1010	635
17	263	312	302	680	1040	451	5100	825	851	20200	958	611
18	258	336	283	550	1110	685	12800	1070	2680	22300	880	604
19	251	392	262	470	963	1720	16400	1210	13200	17500	810	721
20	245	463	252	460	1090	3100	12500	1070	8180	10300	801	1190
21	249	394	270	450	1250	2490	10500	928	3830	7320	783	1130
22	258	407	269	470	1030	1650	10300	815	2540	7240	693	1080
23	267	359	436	500	847	1230	6900	833	1910	5200	661	1330
24	268	335	408	600	723	1130	4630	1280	2550	3850	667	1230
25	266	308	318	752	669	922	3520	1450	3360	4360	661	919
26	282	334	311	868	595	870	2920	1320	2180	5590	700	738
27	320	346	311	696	548	831	2580	1040	1730	4760	2320	656
28	353	356	321	614	479	871	2490	886	1420	3560	3550	601
29	352	336	466	566	475	982	2360	793	1170	2640	3330	565
30	322	493	422	516	---	1060	2160	1220	1040	2890	2100	556
31	305	---	360	512	---	1110	---	2380	---	6210	1420	---
TOTAL	8929	10086	12891	18153	18432	27576	107551	37283	71425	192532	55344	25531
MEAN	288	336	416	586	636	890	3585	1203	2381	6211	1785	851
MAX	393	493	1190	1510	1250	3100	16400	2380	13200	22300	7190	1330
MIN	224	284	252	324	360	394	651	793	832	637	661	556

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1992, BY WATER YEAR (WY)

	701	1221	2142	3236	3494	4142	3888	2577	2074	1382	888	608
MEAN	701	1221	2142	3236	3494	4142	3888	2577	2074	1382	888	608
MAX	5792	8047	9210	17060	9842	11060	9727	9936	12150	6211	5727	2862
(WY)	1987	1973	1991	1937	1950	1963	1964	1933	1958	1992	1979	1979
MIN	148	195	239	263	314	557	852	373	259	216	196	164
(WY)	1964	1964	1964	1945	1964	1941	1971	1941	1988	1954	1988	1963

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1930 - 1992	
ANNUAL TOTAL	802727		585733			
ANNUAL MEAN	2199		1600		2189	
HIGHEST ANNUAL MEAN					4156	
LOWEST ANNUAL MEAN					634	
HIGHEST DAILY MEAN	32900		22300		57100	
LOWEST DAILY MEAN	220		224		109	
ANNUAL SEVEN-DAY MINIMUM	230		256		118	
INSTANTANEOUS PEAK FLOW			23500		60900	
INSTANTANEOUS PEAK STAGE			30.57		36.00	
INSTANTANEOUS LOW FLOW			224		109	
10 PERCENT EXCEEDS	5490		2970		5010	
50 PERCENT EXCEEDS	668		721		990	
90 PERCENT EXCEEDS	271		304		306	

03271000 WOLF CREEK AT DAYTON, OH

LOCATION.--Lat 39°46'00", long 84°14'10", Montgomery County, Hydrologic Unit 05080002, on right bank, at West Riverview Avenue Bridge, in Dayton, 1.8 mi upstream from mouth.  
 DRAINAGE AREA.--68.7 mi<sup>2</sup>.  
 PERIOD OF RECORD.--September 1938 to September 1950, October 1953 to September 1973 (low flow partial records site), October 1986 to current year.  
 REVISED RECORDS.--WRD Ohio 1990: 1989 (p).  
 GAGE.--Water-stage recorder. Datum of gage is 739.83 ft above National Geodetic Vertical Datum of 1929. Prior to 1950, recording gage at same location at datum 39.83 ft lower.  
 REMARKS.--No estimated discharges. Records fair.  
 COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.  
 EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge during flood in January 1959, about 12,800 ft<sup>3</sup>/s gage height, 13.1 ft, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	14	17	15	32	15	47	46	41	11	43	15
2	6.3	13	86	28	27	15	39	44	32	11	33	15
3	6.7	13	95	91	26	15	34	39	25	35	35	15
4	7.9	12	21	46	26	14	37	34	55	15	27	13
5	9.5	13	14	27	24	15	31	31	48	11	20	12
6	6.5	13	12	22	22	17	28	27	46	11	19	14
7	6.6	13	11	19	22	20	27	26	144	11	16	53
8	6.5	12	12	16	20	17	26	31	100	14	75	48
9	7.1	12	11	21	17	15	77	44	52	22	29	21
10	21	13	10	17	16	28	55	29	40	19	73	28
11	12	14	9.3	15	17	20	47	25	30	11	28	18
12	10	15	10	15	15	16	39	22	24	66	19	14
13	11	13	42	18	20	15	32	22	21	23	16	14
14	14	13	18	337	19	15	35	20	20	20	15	12
15	10	14	13	78	31	14	33	19	18	125	15	11
16	9.9	15	12	42	34	13	35	18	16	34	16	11
17	9.9	14	12	35	25	14	325	27	14	259	15	9.3
18	9.7	16	11	25	36	83	816	47	258	61	13	12
19	10	33	10	21	47	166	403	27	64	31	13	17
20	11	24	11	21	41	65	227	21	38	152	12	12
21	12	14	13	21	33	49	356	19	29	64	12	35
22	12	11	11	23	29	45	177	18	22	32	12	36
23	12	10	37	46	26	39	108	62	20	29	12	17
24	14	9.8	19	42	24	31	81	57	23	155	14	13
25	14	9.3	14	28	23	33	73	25	26	41	15	11
26	20	9.2	12	26	21	37	65	21	18	507	15	11
27	23	9.8	11	24	20	33	69	19	15	159	157	10
28	15	20	13	24	19	28	75	17	13	62	90	10
29	14	13	43	24	18	29	58	26	13	78	29	9.7
30	13	35	26	26	---	63	55	126	12	92	21	9.0
31	12	---	17	36	---	64	---	65	---	70	16	---
TOTAL	353.2	440.1	653.3	1229	730	1043	3510	1054	1277	2231	925	526.0
MEAN	11.4	14.7	21.1	39.6	25.2	33.6	117	34.0	42.6	72.0	29.8	17.5
MAX	23	35	95	337	47	166	816	126	258	507	157	53
MIN	6.3	9.2	9.3	15	15	13	26	17	12	11	12	9.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

MEAN	16.5	24.9	58.5	90.0	112	112	117	80.4	62.7	36.9	17.3	15.5
MAX	116	97.1	367	365	251	280	230	332	299	152	39.1	98.1
(WY)	1987	1987	1991	1950	1990	1945	1989	1989	1945	1990	1945	1950
MIN	2.42	2.23	1.98	3.03	14.7	12.6	15.3	5.95	8.18	3.35	3.56	2.04
(WY)	1945	1945	1945	1945	1944	1941	1941	1941	1988	1944	1948	1944

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1939 - 1992	
ANNUAL TOTAL	24176.1		13971.6			
ANNUAL MEAN	66.2		38.2		61.6	
HIGHEST ANNUAL MEAN					102	
LOWEST ANNUAL MEAN					16.1	
HIGHEST DAILY MEAN	2110	May 18	816	Apr 18	3260	Dec 30 1990
LOWEST DAILY MEAN	6.0	Sep 28	6.3	Oct 2	1.1	Sep 18 1944
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 26	7.1	Oct 2	1.4	Aug 31 1948
INSTANTANEOUS PEAK FLOW			2370	Apr 18	9950	Mar 19 1943
INSTANTANEOUS PEAK STAGE			6.11	Apr 18	53.50	Mar 19 1943
INSTANTANEOUS LOW FLOW			6.3	Oct 2	.80	Sep 18 1948
10 PERCENT EXCEEDS	140		67		121	
50 PERCENT EXCEEDS	20		20		19	
90 PERCENT EXCEEDS	8.5		11		4.6	



## 03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH

## WATER QUALITY RECORDS

LOCATION.--Lat 39°38'14", long 84°17'33", Montgomery County, Hydrologic Unit 05080002, on left bank at Miamisburg, 1.0 mi downstream from Bear Creek, 0.6 mi downstream from discharge station at Miamisburg, 0.65 mi downstream from discharge station at Miamisburg, and at mile 65.75.

DRAINAGE AREA.--2,713 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to current year.

pH: June 1978 to current year.

WATER TEMPERATURES: June 1978 to current year.

DISSOLVED OXYGEN: June 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1978. Digital recorder set for one-hour-interval punches. Electronic data logger replaced digital recorder sine June 19, 1991. Set for one-hour-interval.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument. Prior to June 1978, records published as 03271600, Great Miami River near Miamisburg, Ohio. See records of discharge for gaging station at Miamisburg (station 03271500).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,620 microsiemens June 13, 1992; minimum 206 microsiemens Feb. 18, 1982.

pH: Maximum, 9.7 units July 5, 1988; minimum, 7.0 units July 30, Aug. 30, 1979.

WATER TEMPERATURES: Maximum, 33.0°C July 20, 22, 1978; minimum, 0.0°C on many days during winters.

DISSOLVED OXYGEN: Maximum, >20.0 mg/L on several days in water year 1978-1990; minimum, 0.4 mg/L Aug. 27, 1981, Aug. 2, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,620 microsiemens June 13; minimum, 319 microsiemens July 24.

pH: Maximum, 9.3 units Oct. 4; minimum, 7.2 units May 19.

WATER TEMPERATURES: Maximum, 27.5°C July 13; minimum, 0.0°C Jan. 16-19.

DISSOLVED OXYGEN: Maximum, 18.2 mg/L Oct. 2; minimum, 5.6 mg/L May 23.

## 03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1060	1020	1030	1050	1030	1040	881	814	846	968	947	957
2	1040	1000	1030	1060	1030	1040	819	486	747	978	820	951
3	1010	997	1010	1050	1040	1050	667	539	589	853	762	818
4	1020	996	1010	1030	1000	1010	747	595	693	785	748	767
5	1020	983	1010	1010	994	1000	781	702	732	871	788	830
6	1030	1000	1010	1030	999	1020	857	788	815	893	851	869
7	1000	992	995	1050	1010	1040	898	854	868	946	891	912
8	1040	979	1000	1070	1040	1060	948	889	909	965	940	951
9	1060	1020	1030	1060	1030	1050	947	924	939	982	949	966
10	1050	927	992	1060	1030	1050	989	948	964	992	971	984
11	977	925	943	1040	1010	1030	995	972	986	1000	977	989
12	953	905	922	1020	1010	1010	976	953	964	1010	967	993
13	991	957	971	1060	1000	1030	961	904	933	1000	934	989
14	995	955	977	1060	1030	1050	918	846	877	954	558	790
15	989	957	975	1050	1030	1050	899	842	862	1000	785	886
16	985	943	956	1050	1020	1030	926	901	916	896	794	845
17	1010	948	969	1020	996	1010	979	927	960	958	900	930
18	1020	997	1010	1000	985	995	1010	975	992	937	926	930
19	1030	1000	1020	1010	980	995	1010	999	1010	953	929	941
20	1040	1010	1030	1010	994	1010	1030	1000	1020	976	940	957
21	1020	996	1010	1010	978	994	1040	1010	1020	1000	972	985
22	1040	1010	1020	1020	989	1000	1050	1020	1040	1030	976	991
23	1050	1030	1040	1020	980	1000	1030	876	950	1070	998	1040
24	1050	1020	1040	1010	972	993	921	898	912	1040	1020	1030
25	1050	1020	1030	997	974	987	926	888	899	1090	995	1030
26	1020	991	1000	968	937	950	979	934	963	1140	1010	1060
27	1050	1030	1040	974	937	959	998	973	987	1140	1070	1100
28	1060	1010	1040	978	952	965	1020	975	1010	1130	1080	1100
29	1020	992	1010	983	942	963	1020	970	993	1100	1080	1090
30	1030	1020	1030	959	786	894	982	926	945	1090	1060	1070
31	1050	1030	1040	---	---	---	945	916	924	1090	1050	1070
MONTH	1060	905	1010	1070	786	1010	1050	486	912	1140	558	962
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1050	1010	1020	962	928	945	865	853	859	817	795	809
2	1020	983	1000	958	922	942	874	857	864	805	790	798
3	1010	948	972	953	934	943	889	856	875	814	789	802
4	980	938	962	972	939	953	894	869	881	815	794	804
5	969	940	956	986	955	969	879	864	871	827	790	810
6	962	941	954	988	957	974	886	871	876	824	801	815
7	950	928	943	972	950	959	906	881	894	835	807	823
8	959	931	945	955	914	933	915	885	896	842	767	824
9	962	926	945	938	908	925	914	875	894	802	736	761
10	982	937	960	923	888	904	867	826	838	---	---	---
11	1000	936	982	887	865	874	878	844	866	---	---	---
12	1000	966	989	903	869	890	878	836	863	---	---	---
13	1090	1010	1040	894	872	883	889	871	880	---	---	---
14	1050	1010	1020	903	884	894	910	884	898	---	---	---
15	1100	1050	1080	905	870	890	898	881	891	876	836	851
16	1070	1010	1030	924	891	908	926	882	908	868	839	849
17	1000	937	985	958	918	938	873	634	764	857	835	847
18	934	896	922	979	833	933	643	409	511	853	798	836
19	931	904	923	901	729	790	518	488	499	817	793	802
20	927	887	915	806	747	776	518	516	543	832	803	823
21	898	839	878	788	752	765	620	576	598	859	814	843
22	853	837	848	788	771	780	619	591	604	893	851	877
23	881	846	870	811	781	798	649	593	615	905	833	885
24	905	871	888	840	815	829	688	653	671	---	---	---
25	915	891	906	860	828	845	721	689	704	---	---	---
26	926	895	911	878	841	868	758	721	737	---	---	---
27	933	908	920	899	866	888	778	757	765	862	753	825
28	946	918	930	894	874	885	783	767	777	884	854	869
29	963	936	948	888	864	880	798	786	791	907	856	880
30	---	---	---	878	821	855	815	783	793	863	782	835
31	---	---	---	846	821	831	---	---	---	782	746	768
MONTH	1100	837	953	988	729	885	926	409	781	907	736	828

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	761	736	743	1310	839	919	528	424	470	749	700	734
2	810	765	792	---	---	---	589	534	571	792	747	776
3	816	802	810	---	---	---	---	---	---	812	769	799
4	831	799	816	---	---	---	---	---	---	825	791	812
5	809	793	799	---	---	---	---	---	---	843	814	827
6	828	792	816	---	---	---	---	---	---	833	821	827
7	800	735	765	865	815	841	---	---	---	831	740	810
8	756	726	746	---	---	---	---	---	---	808	707	757
9	784	744	757	---	---	---	---	---	---	786	737	758
10	810	789	801	---	---	---	---	---	---	815	786	806
11	840	814	830	---	---	---	---	---	---	852	809	827
12	1610	824	918	---	---	---	---	---	---	883	850	865
13	1620	846	926	---	---	---	---	---	---	866	847	856
14	876	847	859	---	---	---	---	---	---	878	853	863
15	867	850	861	---	---	---	---	---	---	897	876	886
16	874	834	857	---	---	---	---	---	---	899	879	891
17	856	800	828	---	---	---	---	---	---	898	874	886
18	809	457	582	---	---	---	---	---	---	921	882	900
19	643	396	511	---	---	---	---	---	---	917	880	896
20	567	445	508	---	---	---	---	---	---	885	816	866
21	666	571	617	---	---	---	865	823	839	818	728	795
22	724	668	693	---	---	---	878	827	858	789	683	744
23	764	725	743	---	---	---	857	846	850	770	697	747
24	839	769	782	665	319	551	858	833	845	769	758	764
25	787	621	726	692	667	682	870	843	858	789	761	779
26	680	616	632	690	520	600	875	684	855	826	787	811
27	731	675	700	649	541	595	835	436	682	818	785	801
28	777	738	763	697	651	671	623	428	524	847	804	824
29	808	774	798	717	629	703	627	562	584	866	828	846
30	843	800	831	720	689	709	683	633	662	903	864	880
31	---	---	---	680	498	612	694	662	672	---	---	---
MONTH	1620	396	760	1310	319	688	878	424	713	921	683	821
YEAR	1620	319	880									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	9.1	8.8	9.0	8.7	8.5	8.6	8.5	8.3	8.4	8.6	8.4	8.5
2	9.2	8.8	9.0	8.7	8.5	8.6	8.4	8.3	8.3	8.7	8.4	8.6
3	9.2	9.0	9.1	8.7	8.5	8.6	8.5	8.3	8.4	8.6	8.5	8.6
4	9.3	9.0	9.1	8.6	8.5	8.6	8.5	8.3	8.4	8.5	8.3	8.4
5	9.2	9.0	9.1	8.6	8.5	8.6	8.4	8.3	8.3	8.5	8.4	8.4
6	9.1	8.9	9.0	8.6	8.5	8.5	8.5	8.3	8.4	8.5	8.4	8.4
7	9.0	8.8	8.9	8.6	8.5	8.5	8.5	8.4	8.5	8.5	8.4	8.4
8	9.0	8.8	8.9	8.5	8.5	8.5	8.6	8.4	8.5	8.7	8.4	8.5
9	9.1	8.8	9.0	8.5	8.4	8.5	8.6	8.5	8.5	8.7	8.5	8.6
10	9.0	8.8	8.9	8.5	8.4	8.5	8.6	8.4	8.5	8.7	8.5	8.6
11	9.0	8.7	8.8	8.6	8.4	8.5	8.6	8.4	8.5	8.8	8.5	8.6
12	8.9	8.6	8.7	8.5	8.4	8.5	8.7	8.4	8.5	8.7	8.4	8.6
13	8.9	8.6	8.8	8.8	8.5	8.6	8.6	8.4	8.5	8.7	8.5	8.6
14	8.9	8.8	8.8	8.8	8.6	8.8	8.5	8.4	8.5	8.7	8.4	8.5
15	9.0	8.7	8.8	8.7	8.6	8.7	8.5	8.3	8.4	8.4	8.3	8.4
16	8.9	8.6	8.8	8.7	8.6	8.6	8.6	8.4	8.5	8.5	8.4	8.5
17	8.9	8.6	8.8	8.9	8.5	8.7	8.6	8.4	8.5	8.5	8.4	8.5
18	8.9	8.7	8.8	8.7	8.5	8.7	8.6	8.4	8.5	8.5	8.4	8.5
19	9.0	8.7	8.8	8.7	8.5	8.6	8.6	8.4	8.5	8.5	8.4	8.4
20	8.9	8.7	8.8	8.7	8.5	8.6	8.5	8.4	8.5	8.4	8.1	8.2
21	9.0	8.8	8.9	8.5	8.4	8.5	8.6	8.4	8.5	8.2	7.7	8.1
22	9.0	8.8	8.9	8.5	8.4	8.5	8.6	8.4	8.5	8.2	7.8	8.0
23	9.0	8.8	9.0	8.6	8.4	8.5	8.6	8.4	8.5	8.1	7.8	8.0
24	9.0	8.7	8.9	8.6	8.4	8.5	8.7	8.4	8.5	8.1	7.8	8.0
25	8.9	8.6	8.8	8.7	8.5	8.6	8.6	8.2	8.4	7.9	7.8	7.8
26	8.8	8.5	8.7	8.7	8.5	8.6	8.9	8.3	8.6	7.9	7.7	7.8
27	8.7	8.5	8.6	8.6	8.5	8.6	8.9	8.5	8.7	7.9	7.6	7.8
28	8.7	8.6	8.6	8.6	8.5	8.6	8.8	8.6	8.7	7.7	7.6	7.7
29	8.8	8.5	8.7	8.7	8.4	8.5	8.7	8.5	8.7	7.6	7.4	7.6
30	8.7	8.5	8.6	8.6	8.4	8.5	8.7	8.5	8.6	7.9	7.4	7.6
31	8.7	8.5	8.6	---	---	---	8.6	8.4	8.5	7.7	7.6	7.6
MONTH	9.3	8.5	8.8	8.9	8.4	8.6	8.9	8.2	8.5	8.8	7.4	8.3



## 03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	20.5	18.5	19.5	17.5	15.0	16.5	10.5	10.5	10.5	6.0	5.5	5.5
2	21.0	19.0	20.0	14.5	11.5	13.0	10.5	6.5	9.0	6.5	5.5	6.0
3	20.5	19.5	20.0	11.5	9.5	10.5	7.5	5.5	6.5	7.5	6.5	7.0
4	22.0	20.0	20.5	9.5	7.5	8.5	5.0	3.0	4.0	7.5	7.0	7.5
5	21.0	18.5	20.0	7.5	6.0	7.0	3.5	2.0	2.5	7.0	6.5	7.0
6	18.0	16.0	17.0	7.5	7.0	7.0	13.5	2.5	3.5	7.0	6.5	6.5
7	17.0	14.5	15.5	7.0	6.0	6.5	7.0	4.0	5.0	6.5	6.0	6.5
8	16.0	13.5	15.0	6.5	5.0	6.0	9.5	6.5	7.5	6.5	5.5	6.0
9	16.5	14.0	15.5	7.0	5.0	6.0	9.5	9.0	9.5	7.0	6.5	7.0
10	16.5	15.5	16.0	7.0	5.0	6.0	9.0	8.5	9.0	7.0	6.0	6.5
11	16.5	15.5	16.0	8.0	6.0	7.0	9.0	8.0	8.5	6.5	5.0	6.0
12	16.0	14.5	15.5	7.0	6.5	7.0	9.5	8.5	9.0	6.0	5.0	5.5
13	16.5	14.0	15.5	8.5	7.0	8.0	10.5	10.0	10.0	6.5	5.5	6.0
14	15.0	14.0	14.5	9.0	7.5	8.0	10.5	8.0	9.5	6.5	4.5	5.5
15	15.0	13.0	14.5	10.0	8.5	9.5	8.0	6.0	6.5	4.0	1.5	3.5
16	15.0	13.0	14.0	10.5	10.0	10.0	6.0	4.0	4.5	1.5	.0	.5
17	15.0	12.5	14.0	10.5	9.0	9.5	5.5	4.0	4.5	1.5	.0	.5
18	16.0	13.5	15.0	11.5	10.0	10.5	4.5	3.0	3.5	1.0	.0	.5
19	15.5	13.5	14.5	12.5	11.5	12.0	4.0	2.5	3.0	.5	.0	.5
20	15.0	13.0	14.0	14.0	12.5	13.5	4.0	3.5	3.5	1.5	.5	1.0
21	15.0	13.0	14.0	14.0	13.5	13.5	5.5	4.0	4.5	3.0	1.0	2.0
22	15.5	13.5	15.0	13.5	13.0	13.0	5.5	4.0	4.5	4.0	2.0	3.0
23	16.5	15.0	16.0	13.0	11.5	12.5	6.5	5.5	6.0	4.5	3.5	4.0
24	17.5	16.5	17.5	11.0	7.5	9.0	6.0	5.0	6.0	3.5	2.5	3.0
25	19.0	17.5	18.5	7.5	5.5	6.5	6.0	5.0	5.5	2.5	2.0	2.0
26	19.0	18.0	19.0	5.5	4.0	5.0	6.0	5.0	5.5	3.0	1.0	2.0
27	19.5	18.5	19.0	5.5	4.0	5.0	6.0	4.5	5.5	3.5	1.5	2.5
28	19.0	18.0	18.5	6.5	5.5	6.0	6.0	5.5	5.5	3.5	2.5	3.0
29	18.5	17.5	18.0	9.5	6.5	8.0	6.0	6.0	6.0	4.0	3.5	3.5
30	18.5	18.0	18.0	11.5	9.5	10.5	6.0	5.5	6.0	5.0	3.0	4.0
31	18.5	17.5	18.0	---	---	---	6.0	5.5	5.5	4.5	4.0	4.5
MONTH	22.0	12.5	16.5	17.5	4.0	9.0	13.5	2.0	6.0	7.5	.0	4.0
DAY	MAX	MIN	MEAN									
1	5.5	4.0	4.5	10.0	6.5	8.0	9.5	8.5	9.5	17.0	14.5	15.5
2	5.5	3.5	4.5	11.5	8.0	9.5	9.0	7.5	8.5	19.0	16.0	17.5
3	6.0	4.0	5.0	13.0	10.0	11.5	8.5	7.0	7.5	19.5	17.5	18.5
4	6.0	5.0	5.5	14.5	11.5	13.0	8.0	7.0	7.5	17.5	16.0	17.0
5	6.5	5.0	5.5	15.0	13.5	14.0	10.5	7.0	8.5	16.0	14.5	15.5
6	6.0	4.0	5.0	15.5	14.0	15.0	11.0	8.0	9.5	15.0	13.5	14.0
7	5.5	5.0	5.5	15.5	14.5	15.0	13.5	10.0	11.5	16.5	13.0	14.5
8	5.0	4.0	4.5	15.0	14.5	14.5	16.0	11.5	13.5	16.0	14.5	15.0
9	4.5	2.5	3.5	14.5	13.5	14.0	17.0	13.0	15.0	16.0	14.5	15.0
10	4.5	2.5	3.5	14.0	11.0	13.0	16.5	14.5	15.5	18.5	14.5	16.5
11	5.0	4.0	4.5	11.0	8.0	9.5	18.0	15.0	16.0	21.0	16.5	18.5
12	4.5	3.5	4.0	8.0	6.5	7.5	17.5	15.0	16.0	22.0	18.5	20.0
13	4.5	4.0	4.0	7.5	6.0	6.5	16.0	13.5	15.0	22.5	20.0	21.0
14	5.0	4.0	4.5	6.5	5.5	6.0	14.5	13.0	13.5	21.5	19.5	20.5
15	7.5	5.0	6.5	6.5	4.5	5.5	15.0	12.5	13.5	21.0	18.5	19.5
16	7.0	6.0	6.5	7.5	4.0	5.5	17.5	13.5	15.5	22.5	18.0	20.5
17	7.5	6.5	7.0	8.5	6.0	7.0	17.0	15.5	16.5	23.5	20.0	22.0
18	8.0	6.5	7.0	8.0	6.5	7.5	15.5	13.5	14.5	22.0	20.5	21.5
19	8.0	7.0	7.5	7.5	6.0	6.5	14.5	13.0	13.5	22.0	19.5	20.5
20	7.0	6.0	7.0	7.0	6.0	6.5	16.0	14.0	15.0	22.5	20.0	21.0
21	7.5	6.0	6.5	7.0	6.0	6.5	17.0	16.0	16.5	24.0	20.5	22.0
22	9.0	6.5	8.0	7.0	6.5	7.0	16.0	14.0	15.0	25.0	21.0	23.0
23	9.5	8.0	8.5	8.0	6.0	7.0	15.0	13.0	14.0	24.0	22.0	23.0
24	10.0	8.5	9.0	9.0	6.5	7.5	15.5	14.5	15.0	23.0	18.5	21.0
25	9.0	8.0	9.0	8.5	7.5	8.0	15.5	13.5	14.5	18.5	16.5	17.5
26	8.0	7.5	7.5	10.0	8.0	9.0	13.0	12.0	12.5	17.0	16.0	16.5
27	9.0	6.5	8.0	9.0	8.0	8.5	12.0	11.5	12.0	18.5	16.0	17.0
28	9.5	7.5	8.5	10.0	7.5	8.5	13.0	11.0	12.0	19.0	16.0	17.5
29	9.0	7.0	8.0	9.5	8.5	9.0	13.5	12.5	13.0	17.5	16.5	17.0
30	---	---	---	8.5	8.0	8.5	15.0	12.5	13.5	16.5	16.0	16.5
31	---	---	---	10.0	7.5	8.5	---	---	---	16.5	16.0	16.0
MONTH	10.0	2.5	6.0	15.5	4.0	9.0	18.0	7.0	13.0	25.0	13.0	18.5

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN									
1	17.0	15.5	16.5	26.5	23.5	25.0	21.0	19.5	20.0	23.0	20.5	21.5
2	19.0	17.0	18.0	27.0	23.5	25.5	21.0	19.5	20.5	22.5	21.5	22.0
3	21.0	18.0	19.5	26.0	24.0	25.0	21.5	20.5	21.0	23.0	21.5	22.0
4	20.5	20.0	20.0	26.5	23.0	24.5	22.5	21.0	21.5	23.0	21.5	22.0
5	20.5	19.5	20.0	25.5	23.0	24.5	22.5	21.5	22.0	24.0	21.5	23.0
6	22.5	19.5	21.0	25.5	22.5	24.0	23.0	21.0	22.0	25.0	22.5	23.5
7	21.5	20.5	21.0	24.0	22.5	23.5	23.5	21.5	22.5	24.5	23.0	24.0
8	21.5	20.5	21.0	24.5	22.5	23.5	23.5	22.5	23.0	24.0	23.0	23.5
9	22.5	20.5	21.5	26.0	23.0	24.5	25.5	23.0	24.0	25.0	22.5	23.5
10	22.5	20.5	21.5	26.5	24.0	25.5	26.0	24.5	25.0	24.5	23.0	23.5
11	23.0	20.5	21.5	26.5	25.0	25.5	26.0	24.5	25.5	23.5	21.5	22.5
12	24.0	20.5	22.0	26.5	24.5	25.5	25.5	24.0	24.5	22.5	20.0	21.5
13	25.0	22.0	23.5	27.5	25.0	26.0	24.5	23.5	24.0	22.5	20.0	21.0
14	25.0	22.5	23.5	25.5	23.5	24.0	24.0	22.0	23.0	23.0	20.0	21.5
15	25.0	22.5	23.5	24.5	23.5	24.0	23.0	21.5	22.0	24.0	21.0	22.5
16	26.0	22.5	24.0	23.5	23.0	23.5	23.0	20.5	21.5	24.0	22.0	23.0
17	26.5	23.0	24.5	23.0	22.5	22.5	23.5	20.5	22.0	24.0	22.0	23.0
18	25.0	21.5	23.5	22.5	21.5	22.0	24.0	20.5	22.0	23.5	22.5	23.0
19	24.0	20.5	22.0	23.0	22.0	22.5	24.0	22.0	23.0	23.0	21.0	22.0
20	20.5	19.0	20.0	23.0	22.5	22.5	24.0	21.0	22.5	21.5	20.0	21.0
21	19.0	18.0	18.5	22.5	21.5	22.0	24.0	21.0	22.5	22.0	20.5	21.0
22	19.0	18.0	18.5	21.5	21.0	21.0	24.0	22.0	23.0	21.5	20.0	21.0
23	19.0	18.0	18.5	22.0	20.5	21.0	24.5	22.5	23.5	20.0	18.0	19.0
24	20.5	18.0	19.5	22.5	21.0	21.5	25.0	23.0	24.0	19.0	17.0	18.0
25	21.0	19.5	20.5	23.0	22.0	22.5	26.0	23.0	24.5	19.5	17.0	18.0
26	22.5	20.5	21.5	23.0	22.0	22.5	26.5	24.0	25.0	19.5	17.5	18.5
27	23.5	21.5	22.0	23.0	22.0	22.5	25.5	23.0	24.5	20.0	18.0	19.0
28	24.5	21.5	22.5	23.5	21.5	22.5	23.0	21.5	22.5	20.5	18.0	19.0
29	25.0	22.0	23.5	23.5	22.5	23.0	21.5	20.0	21.0	19.0	17.0	18.0
30	25.5	23.0	24.0	23.5	23.0	23.0	21.0	20.0	20.5	18.5	16.0	17.5
31	---	---	---	23.0	20.5	22.0	22.0	20.5	21.0	---	---	---
MONTH	26.5	15.5	21.0	27.5	20.5	23.5	26.5	19.5	22.5	25.0	16.0	21.5
YEAR	27.5	.0	14.5									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.9	7.7	11.5	8.3	6.7	7.6	9.8	8.8	9.2	13.4	11.0	12.0
2	18.2	7.3	11.9	9.0	7.1	8.0	10.4	8.7	9.3	14.1	10.9	12.2
3	17.2	7.2	11.5	9.2	7.7	8.4	10.5	10.1	10.3	11.8	11.0	11.4
4	18.1	7.8	12.2	9.3	8.1	8.7	11.6	10.5	11.0	11.3	10.7	10.9
5	12.9	6.9	10.2	10.7	8.5	9.5	12.1	11.1	11.6	11.9	10.7	11.1
6	13.0	7.3	10.3	10.8	9.5	10.1	13.3	11.3	12.3	12.6	10.7	11.4
7	13.8	7.6	10.4	10.8	9.6	10.1	13.1	11.9	12.5	12.3	10.8	11.4
8	11.0	8.2	9.7	11.4	9.4	10.3	12.5	11.1	11.7	13.5	10.8	11.9
9	11.2	8.5	9.8	11.8	9.5	10.6	11.9	10.0	10.9	13.4	10.6	11.8
10	10.2	8.2	9.3	11.9	9.9	10.8	12.1	10.0	10.9	12.3	10.5	11.3
11	9.6	7.3	8.4	12.2	9.8	10.9	13.0	10.1	11.4	14.4	10.6	12.2
12	9.3	7.2	8.1	11.0	9.6	10.3	12.5	10.2	11.3	13.5	10.7	12.2
13	10.5	7.4	9.0	12.7	9.5	10.9	11.2	9.9	10.5	12.8	10.7	11.7
14	9.8	7.6	8.6	12.5	9.4	10.9	11.8	9.8	10.6	11.6	10.9	11.3
15	10.4	7.5	8.9	11.4	9.0	10.1	12.6	10.3	11.3	12.2	11.6	11.9
16	11.0	7.6	9.4	10.9	8.4	9.5	14.4	10.9	12.4	13.6	12.3	12.9
17	11.9	7.9	9.9	13.3	8.7	10.5	14.8	11.7	13.1	13.6	12.8	13.1
18	12.6	8.3	10.5	10.9	8.4	9.9	15.0	11.9	13.4	14.0	12.7	13.2
19	11.3	8.0	9.7	10.2	8.2	9.1	15.5	12.3	13.7	14.2	12.9	13.4
20	11.3	8.3	9.9	9.5	7.7	8.6	15.0	12.1	13.5	13.6	12.6	13.1
21	11.8	8.2	10.0	8.5	7.4	7.9	15.6	11.8	13.5	13.9	12.4	13.0
22	13.2	8.2	10.8	8.8	7.4	8.0	13.9	11.7	12.8	13.5	12.1	12.8
23	12.1	7.7	10.2	9.5	7.6	8.3	12.4	11.0	11.7	12.4	11.4	11.8
24	11.2	6.8	9.3	8.6	7.5	8.0	14.3	11.1	12.3	13.8	11.5	12.4
25	10.8	6.5	8.9	11.8	8.3	9.9	15.1	10.9	12.5	13.5	12.0	12.7
26	9.9	6.2	8.1	12.8	10.2	11.3	15.6	11.2	13.2	14.8	12.5	13.3
27	9.2	6.0	7.6	12.2	10.6	11.4	16.0	11.2	13.3	15.0	12.6	13.5
28	8.6	6.3	7.6	12.5	10.4	11.3	13.6	11.0	12.5	14.0	12.4	13.0
29	10.3	6.4	8.4	12.9	9.9	11.2	12.4	10.8	11.7	13.8	11.6	12.6
30	9.4	6.2	7.8	10.8	9.0	9.8	13.2	11.0	11.8	14.9	11.6	13.0
31	9.3	6.4	7.8	---	---	---	12.9	10.9	11.7	13.1	11.3	12.0
MONTH	18.2	6.0	9.5	13.3	6.7	9.7	16.0	8.7	11.9	15.0	10.5	12.3



03271601 GREAT MIAMI RIVER BELOW MIAMISBURG, OH

LOCATION.--Lat 39°38'24", long 84°17'23", in sec. 23, R.5, T.2, Montgomery County, Hydrologic Unit 05080002, on right bank 50 ft below outflow and dam of Hutchings Power station, 0.3 mi upstream of Craig Run at south edge of Miamisburg corporate boundary and at mile point 63.4.

DRAINAGE AREA.--2715 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1991 to September 1992.

GAGE.--Water-stage recorder. Datum of gage is 670.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 5. Records good except for periods of estimated records which is fair. Diurnal fluctuation caused by powerplant at gage. Flood flow regulated by retarding dams on Mad River 22 mi. upstream, on Stillwater River 26 mi upstream, on Great Miami River 26 upstream and on Loramie Creek 55 mi upstream.

COOPERATION.--13 discharge measurements by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	447	430	682	494	737	635	1480	2080	2730	983	7570	1330
2	431	420	896	518	715	635	1260	1940	2060	866	4960	1170
3	396	460	2050	1190	746	654	1150	1730	1600	1030	3590	1140
4	386	480	869	940	735	623	1110	1500	1580	863	2810	1050
5	420	470	705	734	721	600	1050	1420	1460	744	2120	1050
6	421	438	687	720	764	658	998	1320	1640	742	1750	1080
7	398	439	619	626	791	710	966	1200	2780	769	1530	1210
8	369	432	555	570	740	683	936	1190	2880	754	2080	1370
9	375	434	553	567	682	767	1130	1520	2090	754	1650	1120
10	518	428	539	539	614	916	1130	1240	1570	736	1600	1070
11	530	424	466	533	589	935	1070	1080	1280	689	1910	980
12	446	428	446	514	595	981	981	965	1120	956	1600	962
13	413	432	685	527	629	964	942	935	1010	1950	1340	951
14	435	440	653	2440	607	857	1020	890	933	15800	1180	882
15	512	435	506	1770	680	757	1030	845	891	19400	1120	843
16	448	458	469	1500	779	702	835	821	921	18900	1080	820
17	410	429	469	1070	1100	681	4210	789	912	21100	1040	796
18	413	447	451	985	1310	908	13600	1050	3570	22700	956	781
19	406	510	436	770	1220	2080	16800	1220	11100	18200	902	850
20	402	614	424	774	1230	3130	13000	1070	9490	11700	882	1170
21	403	537	435	755	1440	2800	11000	954	4550	7690	908	1330
22	416	553	433	733	1210	1940	10500	861	2770	7530	846	1460
23	420	500	694	799	1040	1510	7720	830	2040	5770	813	1360
24	426	477	628	886	927	1380	5130	1430	1950	6980	841	1400
25	421	461	485	902	883	1210	3900	1500	3680	4600	832	1100
26	429	445	463	1030	807	1200	3190	1400	2330	6980	833	900
27	459	501	462	919	758	1120	2770	1130	1750	5570	3120	808
28	480	513	469	831	698	1130	2660	968	1450	4020	4380	763
29	490	488	630	776	678	1210	2460	883	1210	2990	3800	723
30	490	720	622	724	---	1500	2280	1430	1060	3340	2480	713
31	440	---	531	732	---	1570	---	2210	---	6060	1720	---
TOTAL	13450	14243	18992	26868	24425	35446	116308	38401	74407	201166	62243	31182
MEAN	434	475	613	867	842	1143	3877	1239	2480	6489	2010	1039
MAX	530	720	2050	2440	1440	3130	16800	2210	11100	22700	7570	1460
MIN	369	420	424	494	589	600	835	789	891	689	813	713
CFSM	.16	.17	.23	.32	.31	.42	1.43	.46	.91	2.39	.74	.38
IN.	.18	.20	.26	.37	.33	.49	1.59	.53	1.02	2.76	.85	.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1992, BY WATER YEAR (WY)

	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MEAN	434	475	613	867	842	1143	3877	1239	2480	6489	2010	1039
MAX	434	475	613	867	842	1143	3877	1239	2480	6489	2010	1039
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MIN	434	475	613	867	842	1143	3877	1239	2480	6489	2010	1039
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

ANNUAL TOTAL	657131
ANNUAL MEAN	1795
HIGHEST DAILY MEAN	22700 Jul 18
LOWEST DAILY MEAN	369 Oct 8
ANNUAL SEVEN-DAY MINIMUM	395 Oct 3
INSTANTANEOUS PEAK FLOW	24700 Jul 17
INSTANTANEOUS PEAK STAGE	15.22 Jul 17
INSTANTANEOUS LOW FLOW	369 Oct 8
ANNUAL RUNOFF (CFSM)	.66
ANNUAL RUNOFF (INCHES)	9.00
10 PERCENT EXCEEDS	3230
50 PERCENT EXCEEDS	905
90 PERCENT EXCEEDS	440

## 03271800 TWIN CREEK NEAR INGOMAR, OH

LOCATION.--Lat 39°42'28", long 84°31'30", in sec. 15, T.5 N., R.3 E., Preble County, Hydrologic Unit 05080002, on left bank at downstream side of bridge on Halderman Road, 0.5 mi downstream from Bantas Fork, 1.4 mi west of Ingomar, and 4.8 mi upstream from Aukerman Creek.

DRAINAGE AREA.--197 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1962 to current year. Occasional low-flow measurements water years 1959, 1961-62.

GAGE.--Water-stage recorder. Datum of gage is 815.42 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 16-23. Records good, except those for estimated period which are fair. Sediment data collected at this site 1970 to 1974.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959 reached a stage of 18.8 ft, discharge, 30,300 ft<sup>3</sup>/s, computed by Miami Conservancy District. Flood of Mar. 25, 1913 reached a stage of 28.0 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	8.0	12	15	82	40	125	129	157	31	162	36
2	3.2	7.8	20	15	68	37	99	118	109	29	114	32
3	3.3	7.7	47	88	69	36	83	105	86	31	90	30
4	3.3	7.4	32	119	78	35	80	89	84	29	75	29
5	3.4	7.3	20	67	83	35	72	85	95	25	62	26
6	4.0	7.5	16	45	66	36	57	75	307	23	52	24
7	4.4	7.7	14	35	60	38	56	66	502	22	46	22
8	4.6	7.7	13	29	53	38	58	64	392	25	56	28
9	4.6	7.8	12	26	42	36	81	79	220	23	52	24
10	5.3	7.9	11	24	37	37	111	68	152	24	45	24
11	5.3	8.0	11	23	38	43	96	56	114	22	45	23
12	5.2	8.0	11	21	35	41	81	53	90	32	40	21
13	5.2	8.3	15	20	35	36	65	54	77	43	34	19
14	5.3	8.6	15	340	36	34	63	50	69	29	31	18
15	5.3	9.1	12	235	41	33	68	47	61	150	30	17
16	5.3	9.5	11	90	70	32	65	44	53	140	28	16
17	5.6	8.7	11	66	66	31	819	41	46	965	26	15
18	5.7	8.7	10	52	64	44	2520	65	408	764	25	18
19	5.8	16	13	45	101	333	2360	69	456	274	23	17
20	5.8	16	9.5	40	128	210	957	55	220	165	22	16
21	5.8	13	10	38	98	138	1510	47	137	125	21	17
22	6.8	12	10	38	80	112	933	42	95	133	20	25
23	7.1	10	14	50	72	95	489	46	77	207	19	20
24	7.2	8.6	17	111	65	74	348	86	70	1900	19	18
25	7.3	8.1	16	74	58	67	264	77	63	440	20	16
26	8.8	7.7	15	62	54	68	214	56	52	949	24	15
27	11	7.8	13	50	51	68	182	48	43	601	95	15
28	11	9.0	13	46	48	66	168	41	37	293	320	14
29	8.8	9.6	17	43	45	65	154	37	34	451	132	14
30	8.6	12	18	44	---	79	152	180	32	357	66	14
31	8.0	---	16	65	---	141	---	283	---	240	45	---
TOTAL	184.3	275.5	474.5	2016	1823	2178	12330	2355	4338	8542	1839	623
MEAN	5.95	9.18	15.3	65.0	62.9	70.3	411	76.0	145	276	59.3	20.8
MAX	11	16	47	340	128	333	2520	283	502	1900	320	36
MIN	3.2	7.3	9.5	15	35	31	56	37	32	22	19	14
CFSM	.03	.05	.08	.33	.32	.36	2.09	.39	.73	1.40	.30	.11
IN.	.03	.05	.09	.38	.34	.41	2.33	.44	.82	1.61	.35	.12

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, BY WATER YEAR (WY)

MEAN	56.1	138	276	215	315	409	346	276	143	107	58.4	24.4
MAX	758	699	1170	664	886	990	759	874	471	499	531	137
(WY)	1987	1986	1991	1982	1975	1963	1964	1968	1980	1979	1979	1989
MIN	4.00	6.35	6.14	6.45	18.5	70.3	59.4	34.0	10.9	5.20	4.13	3.57
(WY)	1964	1964	1964	1977	1964	1992	1971	1976	1988	1988	1988	1964

## SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1963 - 1992	
ANNUAL TOTAL	55524.6		36978.3			
ANNUAL MEAN	152		101		196	
HIGHEST ANNUAL MEAN					305	
LOWEST ANNUAL MEAN					78.4	
HIGHEST DAILY MEAN	2640	Mar 23	2520	Apr 18	11000	Dec 30 1990
LOWEST DAILY MEAN	3.2	Oct 2	3.2	Oct 2	2.5	Sep 12 1964
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 29	3.6	Oct 1	2.8	Sep 9 1964
INSTANTANEOUS PEAK FLOW			5630	Jul 24 a	19300	Mar 4 1963
INSTANTANEOUS PEAK STAGE			7.75	Jul 24	14.40	Mar 4 1963
INSTANTANEOUS LOW FLOW			3.2	Oct 2	2.5	Sep 12 1964
ANNUAL RUNOFF (CFSM)	.77		.51		1.00	
ANNUAL RUNOFF (INCHES)	10.48		6.98		13.51	
10 PERCENT EXCEEDS	404		181		429	
50 PERCENT EXCEEDS	21		40		60	
90 PERCENT EXCEEDS	4.8		8.0		9.3	

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.



03272700 SEVENMILE CREEK AT CAMDEN, OH

LOCATION.--Lat 39°37'45", long 84°38'40", Preble County, Hydrologic Unit 05080002, on right bank at downstream side of bridge on State Highway 725 in Camden, 0.3 mi downstream from Beasley Run and at mile 16.2.

DRAINAGE AREA.--69.0 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 818.57 ft above National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District). Prior to Oct. 1, 1975, at same site at datum 3.02 ft higher.

REMARKS.--Estimated daily discharges: Nov. 9-12, Jan. 16-22, 25-Feb. 5. Records good except those for periods of estimated record, which are fair. Water-quality data collected at this site 1972 to 1974.

COOPERATION.--Gage-height tapes, and 9 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	3.8	6.9	6.8	25	14	42	45	60	13	83	14
2	1.4	4.1	7.9	7.2	21	13	34	42	44	12	57	12
3	1.3	3.7	40	99	21	13	30	36	35	19	45	12
4	1.4	3.2	12	61	24	12	30	32	36	13	36	11
5	1.5	3.0	7.0	32	25	12	25	31	54	11	27	11
6	1.1	3.0	6.3	23	22	13	22	28	93	11	23	11
7	1.5	3.4	5.6	18	21	14	22	25	203	10	20	9.5
8	1.9	3.1	5.2	15	19	16	22	25	142	12	33	12
9	2.1	3.0	4.8	14	14	13	36	35	82	12	27	12
10	3.4	3.1	4.6	13	13	15	40	25	57	13	22	9.7
11	3.9	3.2	4.2	11	15	16	39	20	43	10	18	9.4
12	3.8	3.3	5.1	10	13	13	31	19	35	22	14	8.2
13	3.2	3.3	9.9	10	14	12	25	19	32	15	12	7.4
14	2.9	3.2	9.4	230	16	11	25	17	28	11	11	7.1
15	3.1	3.3	6.8	102	19	11	26	16	25	54	11	6.8
16	3.6	3.6	4.9	40	22	10	27	15	22	36	10	6.5
17	3.6	3.3	4.7	20	19	10	184	15	20	321	9.3	6.0
18	3.8	3.3	4.6	15	23	32	582	22	266	172	8.4	7.0
19	4.1	11	3.7	13	26	113	535	25	125	73	7.8	6.6
20	4.2	9.3	4.2	12	28	62	357	20	64	149	7.1	6.0
21	4.3	5.7	4.5	11	26	44	630	17	44	97	6.7	6.6
22	4.3	4.1	4.6	11	25	39	359	15	34	50	6.3	16
23	5.3	3.3	9.8	34	24	31	197	28	30	94	6.3	9.0
24	6.2	2.8	9.2	35	22	26	140	59	29	1140	6.6	6.8
25	8.7	2.5	7.0	20	21	24	103	33	25	295	7.7	6.0
26	10	2.5	5.7	15	19	25	81	26	21	647	8.9	5.6
27	12	2.6	5.4	14	18	25	68	22	18	306	68	5.8
28	5.4	3.3	5.3	13	17	22	56	18	16	145	134	5.5
29	4.5	5.0	10	13	16	22	51	17	15	173	48	5.2
30	3.9	5.4	10	14	---	38	55	102	13	197	26	4.9
31	3.5	---	7.7	20	---	51	---	99	---	135	18	---
TOTAL	121.4	117.4	237.0	952.0	588	772	3874	948	1711	4268	818.1	256.6
MEAN	3.92	3.91	7.65	30.7	20.3	24.9	129	30.6	57.0	138	26.4	8.55
MAX	12	11	40	230	28	113	630	102	266	1140	134	16
MIN	1.1	2.5	3.7	6.8	13	10	22	15	13	10	6.3	4.9
CFSM	.06	.06	.11	.45	.29	.36	1.87	.44	.83	2.00	.38	.12
IN.	.07	.06	.13	.51	.32	.42	2.09	.51	.92	2.30	.44	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	21.8	58.3	95.3	80.4	123	143	121	101	46.7	36.1	18.8	10.3											
MAX	126	266	281	265	276	344	243	421	155	138	91.6	40.9											
(WY)	1987	1986	1991	1982	1975	1978	1972	1989	1973	1992	1979	1979											
MIN	3.31	3.90	4.58	3.46	19.2	24.9	25.2	11.3	3.84	4.27	2.95	1.68											
(WY)	1972	1972	1977	1977	1978	1992	1976	1976	1988	1975	1975	1991											

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1971 - 1992
ANNUAL TOTAL	21128.61	14663.5	
ANNUAL MEAN	57.9	40.1	71.9
HIGHEST ANNUAL MEAN			107
LOWEST ANNUAL MEAN			28.0
HIGHEST DAILY MEAN	1190	May 18	5520
LOWEST DAILY MEAN	.81	Sep 9	.81
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 6	1.1
INSTANTANEOUS PEAK FLOW			2370
INSTANTANEOUS PEAK STAGE			8.66
INSTANTANEOUS LOW FLOW			1.1
ANNUAL RUNOFF (CFSM)	.84	.58	1.04
ANNUAL RUNOFF (INCHES)	11.39	7.91	14.15
10 PERCENT EXCEEDS	144	81	161
50 PERCENT EXCEEDS	10	15	26
90 PERCENT EXCEEDS	2.0	3.6	3.8

a Peaks above base in shown Table of peak discharges and stages at continuous-record surface-water-discharge stations.



03274600 GREAT MIAMI RIVER AT NEW BALTIMORE, OH  
(National stream-quality accounting network station)

LOCATION.--Lat 39°15'47", long 84°40'04", in N 1/2 sec. 34, R.1, T.2, Hamilton County, Hydrologic Unit 05080002, at Blue Rock Road bridge at New Baltimore, 6.4 mi downstream from Indian Creek, and 14.3 mi downstream from discharge station at Hamilton.

DRAINAGE AREA.--3,814 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1966 to current year.

REMARKS.--Four parameter (Specific conductance, pH, Water temperature, and Dissolved oxygen) water quality monitor at sitae from July 1966 to September 1981. See records of daily discharge for station at Hamilton (station 032740000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECON (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	
NOV	06...	1015	453	1010	8.8	7.0	7.5	11	12.3	104	110	220
JAN	08...	1315	813	795	8.3	5.0	6.0	6.0	13.0	106	450	160
MAY	20...	1045	1620	821	8.2	22.5	22.0	2.5	8.5	97	230	950
JUL	08...	1330	918	732	8.5	32.0	25.5	8.5	10.8	134	270	100
SEP	16...	1320	865	718	8.0	28.0	23.5	13	11.9	141	68	340
DATE		HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CaCO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
NOV	06...	350	84	35	86	5.1	293	15	264	130	130	0.70
JAN	08...	300	77	27	47	4.7	247	3	207	89	75	0.40
MAY	20...	310	71	31	48	3.7	244	0	202	95	78	0.40
JUL	08...	280	63	29	45	4.0	204	17	195	87	79	0.40
SEP	16...	280	59	31	53	4.6	223	0	184	86	81	0.40
DATE		SILICA, DIS-SOLVED (MG/L SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (MG/L AS Al) (01106)	BARIUM, DIS-SOLVED (MG/L AS Ba) (01005)
NOV	06...	5.1	602	3.30	0.020	0.010	1.0	0.620	0.520	0.430	<10	91
JAN	08...	4.8	453	3.70	0.100	0.110	0.70	0.450	0.400	0.350	<10	69
MAY	20...	0.07	471	2.30	0.020	0.020	2.0	0.330	0.120	0.110	10	81
JUL	08...	0.12	436	2.60	0.020	0.030	0.60	0.190	0.120	0.080	20	67
SEP	16...	0.06	440	1.40	0.020	0.010	1.9	0.310	0.050	0.030	<10	75
DATE		COBALT, DIS-SOLVED (UG/L AS Co) (01035)	IRON, DIS-SOLVED (UG/L AS Fe) (01046)	LITHIUM, DIS-SOLVED (UG/L AS Li) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS Mn) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS Mo) (01060)	NICKEL, DIS-SOLVED (UG/L AS Ni) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS Se) (01145)	SILVER, DIS-SOLVED (UG/L AS Ag) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS Sr) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV	06...	<3	8	14	6	10	5	2	<1.0	760	<6	18
JAN	08...	<3	12	8	9	<10	4	<1	<1.0	690	<6	22
MAY	20...	<3	8	9	2	<10	5	<1	<1.0	820	<6	54
JUL	08...	<3	16	5	2	<10	3	1	<1.0	680	<6	61
SEP	16...	<3	5	15	1	<10	4	<1	<1.0	750	<6	72

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

## CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year	1992 maximum Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Period of record	maximum Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>MUSKINGUM RIVER BASIN</b>								
McGuire Creek below Leesville dam near Leesville, Oh. (03120500)	Lat 40°28'13", long 81°11'48", In E 1/2 sec. 36, T.13 N., R.6 W., Carroll County, Hydrologic Unit 05040001, on left bank at outlet of Leesville Dam, 1.3 mi upstream from mouth, and 1.4 mi northeast of Leesville., Drainage area is 48.3 mi <sup>2</sup> .	1938-91 *	11-1-91	3.65	92	3-4-40	7.88	740
Tuscarawas River below Dover dam, near Dover, Oh. (03122500)	Lat 40°31'47", long 81°25'48", In T.9 N., R.2 W., Tuscarawas County Hydrologic Unit 05040001, on left bank at downstream side of bridge on State Highway 416, 2.2 mi downstream from Dover Dam, 1.5 mi east of Dover and 3.4 mi upstream from Sugar Creek. Drainage area is 1,405 mi <sup>2</sup> .	1923-91 *	8-2-92	7.07	5,530	1-26-37	15.51	26,400
Sugar Creek below Beach City dam, near Beach City, Oh. (03124000)	Lat 40°38'08", long 81°33'11", In T.10 N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, on right bank 1,000 ft downstream from Beach City Dam, 0.4 mi downstream from South Fork, and 1.8 mi southeast of Beach City Drainage area is 300 mi <sup>2</sup> .	1938-91 *	7-26-92	5.49	1,440	7-6-69	11.26	7,520
Stillwater Creek at Pledmont, Oh. (03126000)	Lat 40°11'41", long 81°12'56", In sec. 35, T.10 N., R.6 W., Harrison County, Hydrologic Unit 05040001, on left bank 400 ft downstream from outlet of Pledmont Dam and Boggs Fork, and 0.7 mi northwest of Pledmont. Drainage area is 122 mi <sup>2</sup> .	1938-91 *	7-30-92	7.69	709	12-4-50	11.44	1,470
Stillwater Creek at Tippecanoe, Oh. (03127000)	Lat 40°16'13", long 81°17'26", In NW 1/4 sec, 22, T.12 N., R.7 W., Harrison County, Hydrologic Unit 05040001 on left bank downstream side of highway bridge at Tippecanoe, 0.4 mi downstream from Brushy Fork, 3.6 mi upstream from Weaver Run, 6 mi upstream from Laurel Creek, and 9 mi south of Dennison. Drainage area is 282 mi <sup>2</sup> .	1938-91 *	7-31-92	12.37	1,550	3-5-63	17.29	4,410
Stillwater Creek at Uhrichsville, Oh. (03127500)	Lat 40°23'10", long 81°20'50", Tuscarawas County, Hydrologic Unit 05040001, on left bank at concrete dam of Dennison Water Supply Co. at Uhrichsville, 2.2 mi upstream from Little Stillwater Creek. Drainage area is 367 mi <sup>2</sup> .	1922-91 *	3-20-92	2.55	1,670	8-8-35	12.80	7,650

\* Operated as a continuous-record gaging station

## Maximum discharge at crest-stage partial-record stations (Continued)

Station name and number	Location and drainage area	Period of record	Water year 1992 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>MUSKINGUM RIVER BASIN</b>								
Little Stillwater Creek below Tappan Dam at Tappan, Oh. (03128500)	Lat 40°21'25", long 81°13'49", in NW 1/4 sec. 4, T.13 N., R.7 W., Harrison County, Hydrologic Unit 05040001, on right bank 150 ft downstream from outlet of lake at Tappan Dam, 1 mi west of Tappan, and 2 mi upstream from Plum Run. Drainage area is 71.1 mi <sup>2</sup> .	1938-91*	7-30-92	6.50	330	3-13-39	10.00	1,050
Black Fork Below Charles Mill Dam, near Millin, Oh. (03130000)	Lat 40°44'16", long 82°21'48", in NE 1/4 sec. 35, T.23 N., R.17 W., Ashland County, Hydrologic Unit 05040002, on left bank 700 ft downstream from Charles Mill Dam, 2.5 mi south of Millin, and 4 mi upstream from Rocky Fork. Drainage area is 217 mi <sup>2</sup> .	1938-91*	7-23-92	5.96	1,440	3-13-64	8.45	2,800
Black Fork at Loudonville, Oh. (03131500)	Lat 40°38'09", long 82°14'22", in NW 1/4 sec. 1, T.19 N., R.16 W., Ashland County, Hydrologic Unit 05040002, on right bank at downstream side of bridge on State Highway 39 at Loudonville, 1.5 mi downstream from Big Run. Drainage area is 349 mi <sup>2</sup> .	1931-91*	7-31-92	9.02	2,340	7-5-69	14.11	8,460
Clear Fork below Pleasant Hill Dam near Perrysville, Oh. (03133500)	Lat 40°37'13", long 82°19'28", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, Hydrologic Unit 05040002, on right bank 0.2 mi downstream from Pleasant Hill Dam, 2.8 mi south of Perrysville, and 4.7 mi upstream from the confluence of Clear Fork and Black Fork. Drainage area is 198 mi <sup>2</sup> .	1938-91*	7-17-92	3.24	872	1-23-59	4.89	2,340
Walhonding River below Mohawk dam at Nellie, Oh. (03138500)	Lat 40°20'29", long 82°03'56", in T.6 N., R.8 W., Coshocton County, Hydrologic Unit 05040003, on right bank at upstream side of bridge on U.S. Highway 36 at Nellie, 0.5 mi upstream from Mohawk Creek, and 1.7 mi downstream from Mohawk Dam. Drainage area is 1,505 mi <sup>2</sup> .	1910-13 1921-91*	7-21-92	11.01	6,830	1-25-37	18.8	43,800
Seneca Fork below Senecaville Dam, near Senecaville, Oh. (03141500)	Lat 39°55'28", long 81°26'17", Guernsey County, Hydrologic Unit 05040005, on left bank 650 ft down-stream from Senecaville Dam and 1.5 mi southeast of Senecaville. Drainage area is 118 mi <sup>2</sup> .	1938-91*	3-31-92	7.39	590	8-24-80	9.69	985
Wills Creek below Wills Creek Dam at Wills Creek, Oh. (03143500)	Lat 40°09'34", long 81°50'51", in sec. 22, T.4 N., R.6 W., Coshocton County, Hydrologic Unit 05040005, on left bank 1,200 ft downstream from Wills Creek Dam, 1.3 mi southeast of town of Wills Creek, 2.7 mi southeast of Conesville, and 6.2 mi upstream from mouth. Drainage area is 842 mi <sup>2</sup> .	1938-91*	3-21-92	10.52	3,060	3-7-40	17.40	6,930
Licking River below Dillon Dam, near Dillon Falls, Oh. (03147500)	Lat 39°59'18", long 82°04'50", in T.1 N., R.8 W., Muskingum County, Hydrologic Unit 05040006, on left bank 500 ft downstream from Dillon Dam, 2.0 mi northwest of Dillon Falls, and 5.8 mi upstream from mouth. Drainage area is 742 mi <sup>2</sup> .	1939-91*	7-18-92	9.68	5,260	1-22-59	32.46	47,000

\* Operated as a continuous-record gaging station

## Maximum discharge at crest-stage partial-record stations (Continued)

Station name and number	Location and drainage area	Period of record	Water year 1992 maximum		Period of record maximum	
			Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date
<b>SCIOTO RIVER BASIN</b>						
Deer Creek at Williamsport, Oh. (03231000)	Lat 39°35'09", long 83°07'22", Pickaway County, Hydrologic Unit 05060002, on left bank at downstream side of bridge on U.S. Highway 22 at west edge of Williamsport, 2.0 mi downstream from Dry Run, and 7.6 mi upstream from Hay Run. Drainage area is 333 mi <sup>2</sup> .	1926-35* 1938-56* 1959-61 1962-91*	7-26-92	9.01	2,930	1-22-59 17.6 39,600
Paint Creek below Paint Creek Dam, near Bainbridge, Oh. (03232470)	Lat 39°15'08", long 83°20'58", Highland County, Hydrologic Unit 05060003, on right bank, 400 ft downstream from Paint Creek dam, 700 ft upstream from Cliff Creek, and 4.5 mi northwest of Bainbridge. Drainage area is 570 mi <sup>2</sup> .	1962-63 1963-67 1967-91*	7-29-92	8.09	6,370	3-10-64 27.3 45,000

\* Operated as a continuous-record gaging station

170 PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS

For continuous-record surface-water-discharge stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented in this table. The peaks greater than the base discharge, excluding the highest one are referred to as secondary peaks. The peaks are listed in chronological order. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330. The maximum peak discharge and gage height for the water year are flagged with an asterisk (\*).

Peak discharges equal to or greater than base discharges, water year October 1991 to September 1992

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
<b>OHIO RIVER BASIN</b>							
<b>BEAVER RIVER BASIN</b>							
03086500 MAHONING RIVER AT ALLIANCE, OH (Base discharge: 900 ft <sup>3</sup> /s)							
July 31	2030	*1,430	*3.96	Aug. 9	2130	1,010	3.36
03092000 KALE CREEK NEAR PRICETOWN, OH (Base discharge: 500 ft <sup>3</sup> /s)							
July 31	unknown	*1,000	unknown	Sept. 22	1130	737	5.16
03092090 WEST BRANCH MAHONING RIVER NEAR RAVENNA, OH (Base discharge: 450 ft <sup>3</sup> /s)							
July 13	0100	459	4.60	July 30	1130	522	4.45
July 15	1200	734	5.18	July 30	2330	*1,450	*7.00
July 24	1030	567	4.62	Sept. 21	2330	1,040	6.32
03093000 EAGLE CREEK AT PHELANX STATION, OH (Base discharge: 1,300 ft <sup>3</sup> /s)							
July 31	1800	*3,240	*12.14	Sept. 22	1800	1,720	11.14
03102950 PYMATUNING CREEK AT KINSMAN, OH (Base discharge: 700 ft <sup>3</sup> /s)							
Sept. 22	1700	*582	*9.84				
<b>LITTLE BEAVER CREEK BASIN</b>							
03109500 LITTLE BEAVER CREEK NEAR EAST LIVERPOOL, OH (Base discharge: 5,000 ft <sup>3</sup> /s)							
Aug. 9	0400	*6,900	*9.94	Aug. 28	1900	5,010	8.74
<b>YELLOW CREEK BASIN</b>							
03110000 YELLOW CREEK NEAR HAMMONDSVILLE, OH (Base discharge: 2,000 ft <sup>3</sup> /s)							
Aug. 28	2300	*1,920	*5.62				
<b>SHORT CREEK BASIN</b>							
03111500 SHORT CREEK NEAR DILLONVALE, OH (Base discharge: 1,200 ft <sup>3</sup> /s)							
July 26	2230	2,160	7.30	Aug. 28	2000	*2,180	*7.32
<b>WHEELING CREEK BASIN</b>							
03111548 WHEELING CREEK BELOW BLAINE, OH (Base discharge: 1,500 ft <sup>3</sup> /s)							
Jan. 23	1430	ice jam	*6.59	July 26	2200	2,390	5.53
Mar. 19	0230	1,770	4.83	July 30	0030	*2,550	5.70
<b>CAPTINA CREEK BASIN</b>							
03114000 CAPTINA CREEK AT ARMSTRONGS MILLS, OH (Base discharge: 3,000 ft <sup>3</sup> /s)							
Mar. 19	0130	*2,930	*7.10				
<b>MUSKINGUM RIVER BASIN</b>							
03117500 SANDY CREEK AT WAYNESBURG, OH (Base discharge: 1,800 ft <sup>3</sup> /s)							
Apr. 19	0245	*1,490	*4.06				
03118000 MIDDLE BRANCH NIMISHILLEN CREEK AT CANTON, OH (Base discharge: 400 ft <sup>3</sup> /s)							
July 16	0700	*395	*4.78				
03118500 NIMISHILLEN CREEK AT NORTH INDUSTRY, OH (Base discharge: 2,000 ft <sup>3</sup> /s)							
July 23	1430	2,160	6.57	Aug. 8	2230	2,210	6.64
July 31	1130	*3,040	*7.90				
03139000 KILLBUCK CREEK AT KILLBUCK, OH (Base discharge: 2,000 ft <sup>3</sup> /s)							
July 17	1900	*2,400	*15.55	July 31	0700	2,380	15.53
03140000 MILL CREEK NEAR COSHOCTON, OH (Base discharge: 700 ft <sup>3</sup> /s)							
Mar. 19	0230	*579	*7.53				
03144000 WAKATOMIKA CREEK NEAR FRAZEYSBURG, OH (Base discharge: 1,600 ft <sup>3</sup> /s)							
July 21	0330	2,110	5.50	Aug. 28	1500	*3,380	*6.98
03146500 LICKING RIVER NEAR NEWARK, OH (Base discharge: 6,500 ft <sup>3</sup> /s)							
July 18	0300	*6,680	*9.86				

PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS 171

Peak discharges equal to or greater than base discharges, water year October 1991 to September 1992 (Continued)

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
<b>HOCKING RIVER BASIN</b>							
03157000 CLEAR CREEK NEAR ROCKBRIDGE, OH (Base discharge: 1,900 ft <sup>3</sup> /s)							
July 26	1545	*1,440	*6.36				
03157500 HOCKING RIVER AT ENTERPRISE, OH (Base discharge: 3,500 ft <sup>3</sup> /s)							
July 13	2030	4,110	9.54	July 27	1330	*5,680	*11.73
July 17	2000	3,630	8.74				
<b>SHADE RIVER BASIN</b>							
03159540 SHADE RIVER NEAR CHESTER, OH (Base discharge: 2,400 ft <sup>3</sup> /s)							
Dec. 10	0700	*3,660	*19.91	July 24	2330	2,530	17.13
<b>RACCOON CREEK BASIN</b>							
03202000 RACCOON CREEK NEAR ADAMSVILLE, OH (Base discharge: 3,000 ft <sup>3</sup> /s)							
Dec. 3	0930	*3,290	*12.52	Mar. 22	0500	3,020	11.92
<b>SCIOTO RIVER BASIN</b>							
03219500 SCIOTO RIVER NEAR PROSPECT, OH (Base discharge: 3,600 ft <sup>3</sup> /s)							
July 17	2100	*6,440	*12.16	Aug. 2	1900	3,860	9.02
July 27	0600	3,720	8.84				
03219590 BOKES CREEK NEAR WARRENSBURG, OH (Base discharge: 800 ft <sup>3</sup> /s)							
July 14	2015	*2,660	*11.77	July 17	2215	2,200	11.28
03220000 MILL CREEK NEAR BELLEPOINT, OH (Base discharge: 2,500 ft <sup>3</sup> /s)							
July 13	1245	3,760	7.62	July 20	1900	2,920	6.87
July 18	0430	*4,110	*7.90				
03223000 OLENTANGY RIVER AT CLARIDON, OH (Base discharge: 1,500 ft <sup>3</sup> /s)							
July 18	0130	*3,010	*11.02				
03228300 BIG WALNUT CREEK AT SUNBURY, OH (Base discharge: 2,200 ft <sup>3</sup> /s)							
July 17	1630	*2,170	*8.97				
03230500 BIG DARBY CREEK AT DARBYVILLE, OH (Base discharge: 4,500 ft <sup>3</sup> /s)							
July 15	1000	6,760	10.78	July 19	1230	*6,820	*10.82
<b>UPPER TWIN CREEK BASIN</b>							
03237280 UPPER TWIN CREEK AT MCGAW, OH (Base discharge: 450 ft <sup>3</sup> /s)							
Dec. 2	2215	1,260	8.95	May 9	0715	882	8.29
Mar. 19	0245	*1,440	*9.30				
<b>OHIO BRUSH CREEK BASIN</b>							
03237500 OHIO BRUSH CREEK NEAR WEST UNION, OH (Base discharge: 11,000 ft <sup>3</sup> /s)							
Mar. 19	0815	*13,900	*15.45				
<b>WHITEOAK CREEK BASIN</b>							
03238500 WHITEOAK CREEK NEAR GEORGETOWN, OH (Base discharge: 5,500 ft <sup>3</sup> /s)							
Mar. 7	1500	7,550	6.80	May 9	1930	5860	6.23
Mar. 19	1000	*8,820	*7.18				
<b>LITTLE MIAMI RIVER BASIN</b>							
03240000 LITTLE MIAMI RIVER NEAR OLDTOWN, OH (Base discharge: 800 ft <sup>3</sup> /s)							
Apr. 19	0545	*572	*3.89				
03241500 MASSIES CREEK AT WILBERFORCE, OH (Base discharge: 600 ft <sup>3</sup> /s)							
July 26	1830	*1,280	*7.22				
03245500 LITTLE MIAMI RIVER AT MILFORD, OH (Base discharge: 15,000 ft <sup>3</sup> /s)							
July 24	2000	*11,300	*11.13				
<b>GREAT MIAMI RIVER BASIN</b>							
03261500 GREAT MIAMI RIVER AT SIDNEY, OH (Base discharge: 4,000 ft <sup>3</sup> /s)							
July 13	0930	*14,200	*14.58	July 17	0900	7,650	10.35
03261950 LORAMIE CREEK NEAR NEWPORT, OH (Base discharge: 1,500 ft <sup>3</sup> /s)							
July 14	0230	*5,540	*14.29	July 17	2200	3,560	12.71

## 172 PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS

Peak discharges equal to or greater than base discharges, water year October 1991 to September 1992 (Continued)

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
<b>03264000 GREENVILLE CREEK NEAR BRADFORD, OH (Base discharge: 1,500 ft<sup>3</sup>/s)</b>							
Apr. 18	2200	*1,840	*5.43	July 31	0630	1,820	5.40
June 19	0930	1,780	5.34				
<b>03265000 STILLWATER RIVER AT PLEASANT HILL, OH (Base discharge: 5,000 ft<sup>3</sup>/s)</b>							
Apr. 18	2300	*6,010	*9.54	July 18	0100	5,890	9.43
July 14	1000	5,860	9.40				
<b>03267000 MAD RIVER NEAR URBANA, OH (Base discharge: 1,400 ft<sup>3</sup>/s)</b>							
July 13	1400	2,130	7.09	July 17	--	*2,220	*7.22
<b>03267900 MAD RIVER AT ST. PARIS PIKE AT EAGLE CITY, OH (Base discharge: 2,500 ft<sup>3</sup>/s)</b>							
June 18	2230	3,110	10.51	July 17	1130	*7,220	*15.08
July 13	1330	4,400	12.12				
<b>03271000 WOLF CREEK AT DAYTON, OH (Base discharge: 1,400 ft<sup>3</sup>/s)</b>							
Apr. 18	1645	*2,370	*6.11	July 26	0600	1,460	5.21
<b>03271800 TWIN CREEK NEAR INGOMAR, OH (Base discharge: 4,700 ft<sup>3</sup>/s)</b>							
Apr. 18	1900	5,290	7.49	July 24	0400	*5,630	*7.75
<b>03272700 SEVENMILE CREEK AT CAMDEN, OH (Base discharge: 1,500 ft<sup>3</sup>/s)</b>							
July 24	0700	*2,370	*8.66				

ASHLAND COUNTY

405303082170700. Local number, AS-2.

LOCATION.--Lat 40°53'03", long 82°17'07", Hydrologic Unit 05040002, Jerome Fork well field 2 mi northeast of Ashland.

Owner: Ashland Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 64 ft, cased.

INSTRUMENTATION.--Digital recorder-- 60 minute punch.

DATUM.--Elevation of land-surface datum is 980 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

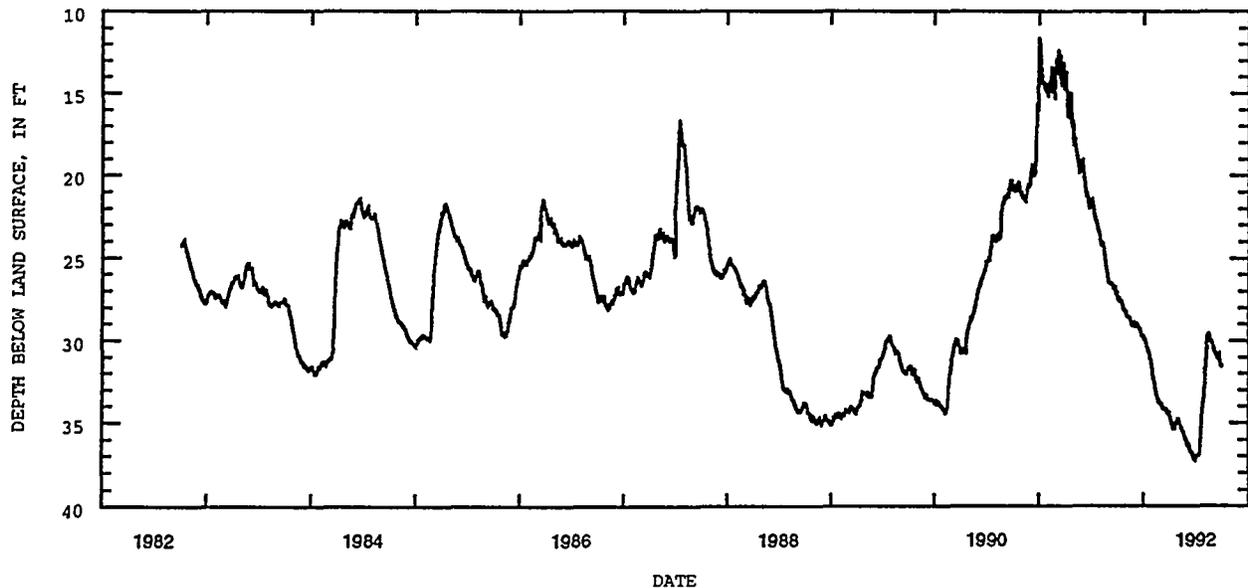
PERIOD OF RECORD.--March 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.20 ft below land-surface datum, June 29,1992;  
minimum daily low, 11.56 ft below land-surface datum, Jan. 1, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.15	28.24	28.95	29.76	31.85	33.92	34.34	34.83	36.14	37.08	32.57	30.52
2	27.20	28.26	28.99	29.76	31.96	33.92	34.45	34.77	36.20	37.14	32.20	30.51
3	27.29	28.32	29.06	29.74	32.03	33.87	34.51	34.75	36.24	37.14	31.90	30.58
4	27.34	28.42	29.16	29.74	32.15	33.85	34.62	34.78	36.30	37.11	31.49	30.66
5	27.44	28.47	29.17	29.85	32.22	33.85	34.67	34.82	36.36	37.06	31.27	30.69
6	27.51	28.53	29.11	29.95	32.30	33.84	34.72	34.86	36.36	37.02	30.95	30.73
7	27.55	28.54	29.07	29.97	32.39	33.95	34.81	34.97	36.31	36.95	30.65	30.76
8	27.54	28.58	29.07	29.96	32.50	34.05	34.87	35.06	36.28	36.95	30.40	30.81
9	27.53	28.58	29.05	29.97	32.58	34.07	34.96	35.17	36.32	36.97	30.20	30.81
10	27.52	28.58	29.09	30.06	32.65	34.05	34.99	35.24	36.37	36.93	30.01	30.88
11	27.57	28.60	29.07	30.17	32.76	34.11	35.09	35.27	36.43	36.92	29.85	30.93
12	27.61	28.60	29.06	30.27	32.81	34.20	35.11	35.25	36.51	36.91	29.78	30.96
13	27.62	28.61	29.05	30.33	32.93	34.20	35.08	35.29	36.60	36.94	29.76	30.99
14	27.63	28.61	29.09	30.46	33.01	34.19	35.16	35.30	36.66	36.94	29.64	31.01
15	27.69	28.64	29.13	30.52	33.13	34.19	35.23	35.34	36.71	36.95	29.62	30.98
16	27.68	28.68	29.15	30.56	33.24	34.15	35.27	35.36	36.75	36.89	29.64	30.93
17	27.63	28.69	29.19	30.68	33.30	34.13	35.23	35.42	36.77	36.55	29.66	30.86
18	27.64	28.78	29.25	30.71	33.31	34.13	35.23	35.52	36.79	36.35	29.65	30.82
19	27.74	28.90	29.28	30.71	33.43	34.12	35.29	35.56	36.78	35.68	29.76	30.81
20	27.79	28.97	29.28	30.74	33.49	34.12	35.35	35.54	36.75	35.38	29.85	30.78
21	27.85	29.03	29.30	30.77	33.57	34.12	35.35	35.60	36.72	35.17	29.93	30.88
22	27.91	29.04	29.30	30.81	33.65	34.14	35.26	35.64	36.78	34.84	29.94	31.09
23	27.97	29.01	29.39	30.94	33.73	34.28	35.21	35.69	36.87	34.57	29.96	31.19
24	28.03	28.96	29.47	31.06	33.73	34.31	35.10	35.74	36.96	34.34	30.02	31.28
25	28.11	28.95	29.54	31.12	33.68	34.31	35.05	35.80	37.02	34.17	30.06	31.39
26	28.13	29.02	29.61	31.19	33.66	34.34	34.99	35.85	37.09	33.98	30.10	31.47
27	28.13	29.07	29.68	31.26	33.68	34.42	34.95	35.90	37.15	33.83	30.15	31.52
28	28.16	29.05	29.71	31.39	33.77	34.42	34.91	35.94	37.19	33.68	30.25	31.50
29	28.19	28.98	29.75	31.49	33.83	34.38	34.88	35.98	37.20	33.51	30.32	31.50
30	28.21	28.95	29.75	31.61	---	34.35	34.84	36.05	37.14	33.39	30.39	31.50
31	28.24	---	29.76	31.74	---	34.35	---	36.10	---	33.18	30.47	---
MAX	28.24	29.07	29.76	31.74	33.83	34.42	35.35	36.10	37.20	37.14	32.57	31.52

CAL YR 1991 LOW 29.76  
WTR YR 1992 LOW 37.20



ASHLAND COUNTY--Continued

405425082173000. Local number. AS-3.

LOCATION.--Lat 40°54'25", long 82°17'30", Hydrologic Unit 05040002, Ashland Bates well field along Jerome Fork near Ashland.

Owner: Ashland Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 78 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 990 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

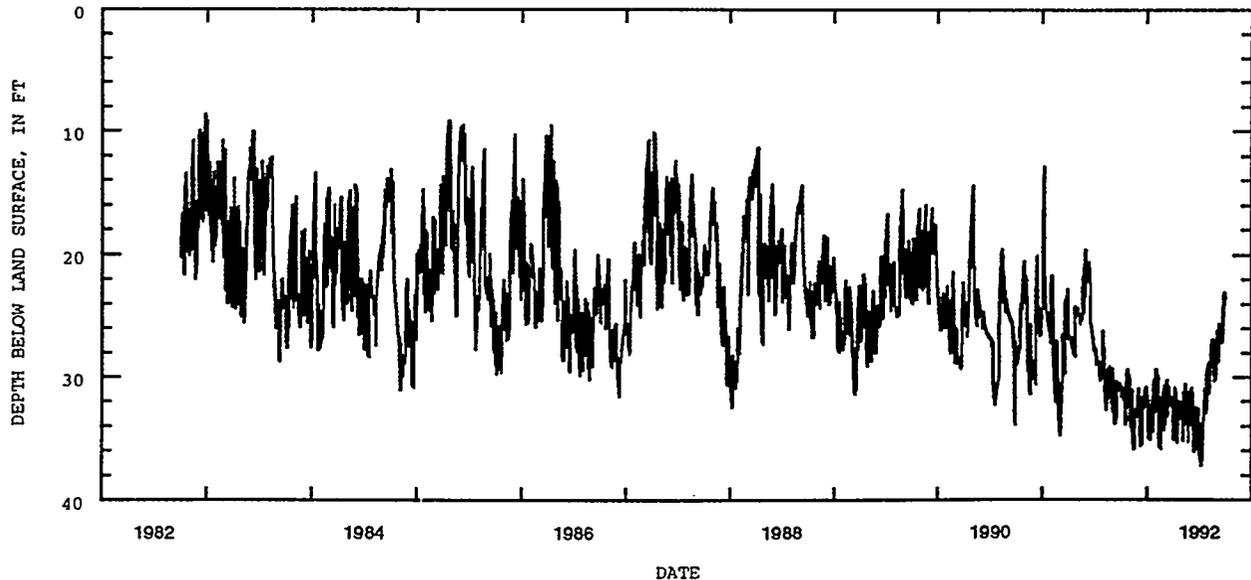
PERIOD OF RECORD.--August 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.21 ft below land-surface datum, July 7, 1992;  
minimum daily low, 3.10 ft, above land-surface, Feb. 23, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.23	30.16	31.35	31.76	29.69	30.70	35.07	32.14	31.40	33.71	29.10	28.81
2	31.41	30.23	30.89	31.85	29.29	33.55	34.29	32.12	31.05	35.80	28.91	26.17
3	31.54	33.49	31.00	31.91	29.40	33.69	34.42	34.87	31.00	36.39	31.17	26.14
4	31.55	33.77	31.34	33.99	29.61	33.75	31.72	35.05	31.21	36.56	31.36	28.77
5	31.51	33.94	34.39	34.55	29.75	31.15	31.16	35.07	31.27	36.72	28.87	26.48
6	31.08	34.01	34.68	34.88	30.06	31.08	30.82	33.25	31.30	36.90	28.76	26.58
7	30.80	31.33	34.94	34.96	30.28	31.18	30.98	31.32	31.32	37.21	28.87	26.35
8	31.12	30.97	35.16	34.99	30.10	30.73	31.06	31.31	33.81	34.68	29.02	25.95
9	31.39	31.11	35.38	34.98	29.89	33.06	31.16	31.41	34.82	36.68	29.06	25.73
10	31.63	31.14	35.49	35.01	33.34	33.20	31.34	31.42	35.40	36.72	29.01	25.81
11	31.73	31.17	35.48	35.10	34.15	30.22	31.68	31.06	35.86	36.68	28.56	26.09
12	31.86	34.13	35.42	35.15	34.73	33.06	34.72	30.80	36.09	33.30	28.15	26.36
13	31.86	34.80	35.31	32.80	35.25	30.75	34.94	30.53	33.36	34.86	27.77	26.61
14	31.83	35.22	35.34	32.40	35.58	30.70	35.08	30.65	32.92	34.94	27.44	26.80
15	31.78	35.61	32.24	32.39	35.61	30.78	35.28	33.54	32.73	32.37	27.12	26.89
16	31.74	35.86	31.56	32.38	35.69	30.81	35.34	33.82	32.61	32.39	26.90	27.10
17	31.69	35.77	31.67	32.36	35.72	30.92	32.52	33.86	32.48	32.46	27.19	27.22
18	33.82	35.52	31.93	32.33	33.32	31.05	32.33	33.69	32.49	32.12	27.46	26.96
19	31.23	32.65	32.20	31.84	32.47	31.26	32.18	33.92	35.47	31.49	30.22	26.63
20	30.75	32.63	32.46	34.34	32.61	31.52	32.03	34.03	35.79	30.88	30.35	26.21
21	30.27	32.76	32.59	34.45	32.64	31.73	31.93	34.16	35.90	32.51	30.36	25.72
22	29.98	32.86	32.15	32.06	32.12	31.70	32.07	34.61	33.21	32.84	30.28	25.23
23	29.73	32.97	31.61	31.11	31.78	31.56	32.23	35.30	32.89	32.91	30.17	24.81
24	29.53	33.08	31.15	30.77	31.49	31.79	32.39	35.33	32.75	32.90	30.07	24.33
25	29.32	33.20	31.15	30.50	31.22	32.02	32.40	31.84	32.68	32.79	29.93	23.88
26	29.43	33.21	31.25	30.28	33.87	32.25	32.31	31.15	32.63	32.65	29.76	23.45
27	29.65	32.58	31.05	32.90	34.16	32.39	32.05	32.71	32.59	29.82	29.61	23.04
28	29.78	32.06	30.76	30.35	34.19	32.39	32.15	33.19	32.54	29.66	26.90	23.23
29	29.90	31.54	30.88	30.42	31.28	31.84	32.16	33.46	35.88	29.56	28.82	23.46
30	29.98	31.32	31.27	30.29	---	31.89	32.16	33.75	36.29	29.50	28.82	23.54
31	30.06	---	31.60	29.96	---	32.16	---	33.97	---	29.33	28.85	---
MAX	33.82	35.86	35.49	35.15	35.72	33.75	35.34	35.33	36.29	37.21	31.36	28.81

CAL YR 1991 LOW 35.86  
WTR YR 1992 LOW 37.21



## ATHENS COUNTY

32004082071600. Local number, AT-2A.

LOCATION.--Lat 39°20'04", long 82°07'16", Hydrologic Unit 05030204, 1.1 mi west of city hall in Athens.

Owner: City of Athens.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 48 ft, cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 641.81 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter, 5.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to water year 1978, well depth reported as 43 ft.

PERIOD OF RECORD.--March 1954 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured low, 21.13 ft below land-surface datum, Oct. 16, 1987; minimum daily low, 1.05 ft below land-surface datum, May 25, 28, 1968.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 24, 1991	20.28	Jan. 24, 1992	19.94	Apr. 21, 1992	18.39

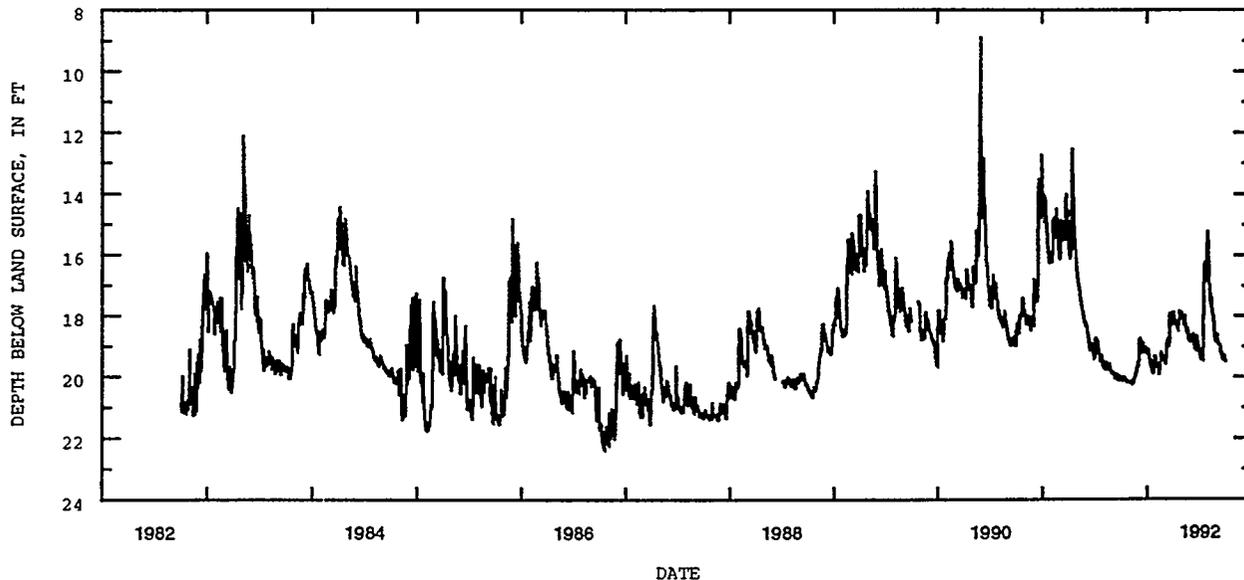
ATHENS COUNTY--Continued

392009082072200. Local number, AT-5  
 LOCATION.--Lat 39°20'09", long 82°07'22", Hydrologic Unit 05030204, in Athens well field along Hocking River.  
 Owner: Athens Water Department.  
 AQUIFER.--Sand and gravel of Quaternary Age.  
 WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 48 ft, cased.  
 INSTRUMENTATION.--Digital recorder -- 60-minute punch.  
 DATUM.--Elevation of land surface datum is 640 ft above National Geodetic Vertical Datum on 1929, from topographic map.  
 Measuring point: Floor of instrument shelter, 4.75 ft above land-surface datum.  
 REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.  
 PERIOD OF RECORD.--July 1982 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 22.35 ft below land-surface datum, Oct. 19, 20, 1986;  
 minimum daily low 8.87 ft below land-surface datum, May 31, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.10	20.19	19.63	19.11	19.47	19.47	17.87	17.98	18.75	19.18	16.37	18.78
2	20.06	20.19	19.61	19.11	19.50	19.49	17.86	18.01	18.72	19.22	16.65	18.82
3	20.08	20.20	19.37	19.10	19.56	19.54	17.92	18.03	18.78	19.26	16.91	18.90
4	20.10	20.21	18.89	19.09	19.59	19.57	18.03	18.10	18.81	19.29	17.03	18.92
5	20.11	20.21	18.75	19.15	19.62	19.58	18.11	18.18	18.78	19.36	17.18	18.91
6	20.12	20.21	18.74	19.22	19.65	19.58	18.18	18.23	18.65	19.38	17.31	18.93
7	20.12	20.22	18.80	19.30	19.71	19.50	18.21	18.26	18.64	19.41	17.46	18.93
8	20.11	20.22	18.88	19.36	19.76	19.29	18.24	18.29	18.64	19.41	17.59	18.97
9	20.10	20.20	18.93	19.44	19.80	19.10	18.28	18.30	18.58	19.37	17.63	18.97
10	20.06	20.22	18.99	19.49	19.84	18.97	18.31	18.08	18.66	19.42	17.39	19.03
11	20.01	20.23	19.07	19.56	19.89	18.91	18.30	17.99	18.77	19.42	17.57	19.08
12	20.03	20.23	19.13	19.59	19.91	18.78	18.24	18.08	18.84	19.44	17.67	19.12
13	20.06	20.21	19.21	19.63	19.92	18.73	18.27	18.19	18.91	19.44	17.82	19.16
14	20.08	20.21	19.21	19.67	19.88	18.81	18.32	18.28	18.93	18.58	17.89	19.20
15	20.10	20.18	18.90	19.69	19.77	18.89	18.33	18.34	18.95	17.41	17.98	19.21
16	20.11	20.10	18.91	19.72	19.65	18.91	18.38	18.44	19.03	17.01	17.99	19.22
17	20.11	20.06	18.98	19.79	19.38	18.98	18.42	18.49	19.08	16.83	18.03	19.28
18	20.12	20.03	19.06	19.84	19.29	19.02	18.42	18.53	19.10	16.35	18.13	19.31
19	20.13	19.99	19.12	19.83	19.28	18.75	18.24	18.52	19.01	16.24	18.25	19.37
20	20.15	19.97	19.17	19.88	19.26	18.05	18.13	18.38	18.72	16.54	18.33	19.38
21	20.17	19.95	19.21	19.87	19.27	17.94	18.08	18.48	18.64	16.73	18.46	19.40
22	20.19	19.93	19.22	19.87	19.34	17.94	18.04	18.56	18.68	16.69	18.55	19.40
23	20.20	19.89	19.22	19.86	19.38	17.94	17.89	18.65	18.77	16.81	18.66	19.38
24	20.20	19.82	19.12	19.68	19.41	18.01	17.83	18.74	18.81	16.86	18.75	19.28
25	20.17	19.77	19.01	19.42	19.40	18.13	17.88	18.74	18.87	16.44	18.79	19.34
26	20.17	19.73	19.02	19.34	19.38	18.18	17.91	18.70	18.91	16.49	18.82	19.40
27	20.19	19.70	19.11	19.34	19.41	18.22	17.91	18.77	18.97	16.06	18.84	19.44
28	20.19	19.67	19.16	19.35	19.44	18.25	17.91	18.80	19.03	15.22	18.84	19.47
29	20.19	19.65	19.21	19.35	19.47	18.27	17.92	18.84	19.07	15.37	18.79	19.48
30	20.19	19.64	19.21	19.38	---	18.28	17.96	18.84	19.11	15.68	18.58	19.50
31	20.19	---	19.15	19.46	---	18.23	---	18.83	---	16.00	18.68	---
MAX	20.20	20.23	19.63	19.88	19.92	19.58	18.42	18.84	19.11	19.44	18.84	19.50

CAL YR 1991 LOW 20.23  
 WTR YR 1992 LOW 20.23



## AUGLAIZE COUNTY

403233083574500. Local number, AU-3.

LOCATION.--Lat 40°32'33", long 83°57'45", Hydrologic Unit 05080001, 1.0 mi Southwest of New Hampshire.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 380 ft., cased to 52 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,020 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter, 3.00 ft. above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--December 1974 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 11.87 ft below land-surface datum, Feb. 7-8, 1977; minimum measured low, 4.31 ft below land-surface datum, Apr. 30, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 1, 1991	8.69	Apr. 29, 1992	6.65	July 29, 1992	5.50

BELMONT COUNTY

400118081082200. Local number, B-3.

LOCATION.--Lat 40°01'18", long 81°08'22", Hydrologic Unit 05040001, Mt. Olivett Public Square, Mt. Olivett, Oh.

Owner: Village of Mt. Olivett.

AQUIFER.--Shale of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 119 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1,265 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter, 1.5 ft. above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

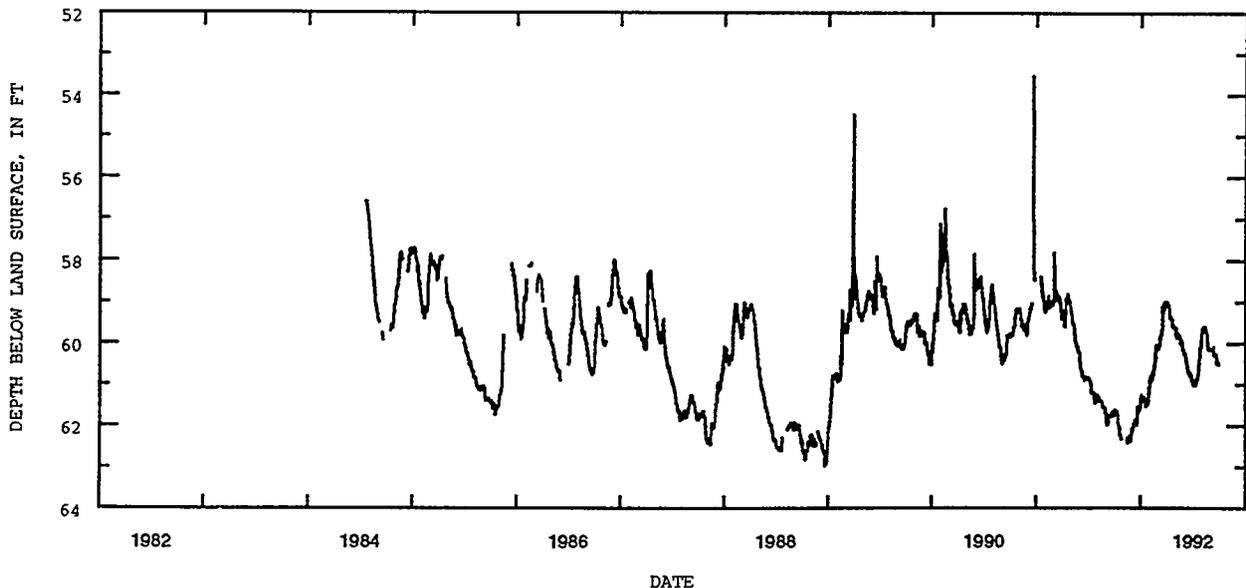
PERIOD OF RECORD.--July 19, 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 62.94 ft below land-surface datum, Dec. 26, 1988;  
minimum daily low, 53.55 ft below land-surface datum, Dec. 21, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61.75	---	62.25	61.59	61.09	60.08	59.02	59.63	60.21	60.90	59.88	60.16
2	61.71	---	62.25	61.58	61.09	60.08	59.01	59.63	60.24	60.93	59.88	60.16
3	61.65	---	62.16	61.49	61.08	60.10	59.01	59.63	60.25	60.95	59.83	60.15
4	61.62	---	62.05	61.35	61.03	60.11	59.01	59.63	60.25	61.00	59.71	60.14
5	61.62	---	62.12	61.30	60.89	60.12	59.05	59.65	60.25	61.00	59.66	60.15
6	61.60	---	62.11	61.30	60.88	60.12	59.09	59.79	60.27	61.00	59.66	60.15
7	61.65	---	62.10	61.35	60.83	60.10	59.09	59.84	60.35	61.01	59.66	60.15
8	61.69	---	62.04	61.39	60.79	60.05	59.07	59.84	60.40	61.02	59.65	60.14
9	61.71	---	62.00	61.39	60.85	60.06	59.07	59.80	60.43	61.01	59.62	60.12
10	61.71	---	61.95	61.34	60.88	60.04	59.09	59.81	60.47	61.01	59.61	60.11
11	61.70	---	61.95	61.35	60.88	59.87	59.09	59.83	60.50	61.00	59.60	60.12
12	61.62	---	61.95	61.37	60.89	59.87	59.25	59.83	60.58	60.98	59.59	60.16
13	61.67	---	61.95	61.37	60.87	59.85	59.37	59.80	60.58	60.96	59.62	60.19
14	61.70	---	61.89	61.30	60.75	59.84	59.37	59.75	60.58	60.94	59.64	60.22
15	61.73	62.29	61.83	61.29	60.72	59.79	59.38	59.80	60.63	60.93	59.66	60.26
16	61.90	62.33	61.90	61.36	60.67	59.79	59.38	59.85	60.68	60.86	59.70	60.28
17	61.96	62.41	61.90	61.36	60.71	59.79	59.38	59.86	60.70	60.86	59.73	60.28
18	61.98	62.41	61.87	61.49	60.70	59.71	59.39	59.89	60.70	60.85	59.74	60.28
19	62.03	62.41	61.98	61.54	60.58	59.62	59.42	59.83	60.70	60.80	59.79	60.26
20	62.03	62.40	61.98	61.54	60.56	59.12	59.43	59.97	60.68	60.76	59.85	60.27
21	62.05	62.37	61.95	61.51	60.55	59.25	59.43	60.00	60.75	60.71	59.93	60.27
22	62.14	62.29	61.82	61.50	60.55	59.25	59.52	60.00	60.77	60.60	59.98	60.27
23	62.20	62.28	61.70	61.50	60.53	59.08	59.58	60.00	60.77	60.56	60.03	60.42
24	62.22	62.27	61.51	61.35	60.36	59.17	59.58	59.99	60.77	60.47	60.09	60.48
25	62.22	62.30	61.61	61.40	60.25	59.18	59.57	59.98	60.77	60.40	60.12	60.49
26	62.27	62.38	61.63	61.48	60.15	59.17	59.56	59.99	60.77	60.34	60.14	60.49
27	62.31	62.38	61.66	61.48	60.06	59.05	59.58	60.04	60.83	60.12	60.14	60.48
28	62.31	62.38	61.67	61.45	60.04	59.06	59.62	60.12	60.87	60.09	60.13	60.46
29	---	62.37	61.58	61.40	60.06	59.08	59.63	60.15	60.88	60.08	60.13	60.50
30	---	62.30	61.53	61.30	---	59.08	59.63	60.15	60.89	60.06	60.14	60.51
31	---	---	61.59	61.15	---	59.02	---	60.17	---	59.98	60.14	---
MAX	62.31	62.41	62.25	61.59	61.09	60.12	59.63	60.17	60.89	61.02	60.14	60.51

CAL YR 1991 LOW 62.41  
WTR YR 1992 LOW 62.41



## BUTLER COUNTY

391805084261800. Local number, BU-9.

LOCATION.--Lat 39°18'05", long 84°26'18", Hydrologic Unit 05090203, 2.5 mi northwest of Sharonville.

Owner: Olinkraft, Inc.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 85 ft.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 586.89 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter, 4.66 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to water year 1978, well diameter reported as 26 in.

PERIOD OF RECORD.--July 1938 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.40 ft below land-surface datum, Mar. 16, 1954;  
minimum daily low, 4.40 ft below land-surface datum, Aug. 3, 1958.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 23, 1991	9.20	Apr. 10, 1992	9.44

BUTLER COUNTY--Continued

391904084371800. Local number, BU-12.

LOCATION.--Lat 39°19'04", long 84°37'18", Hydrologic Unit 05080002, Cincinnati well field 1.5 mi east of Ross.

Owner: City of Cincinnati.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 157 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 547.73 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 7.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

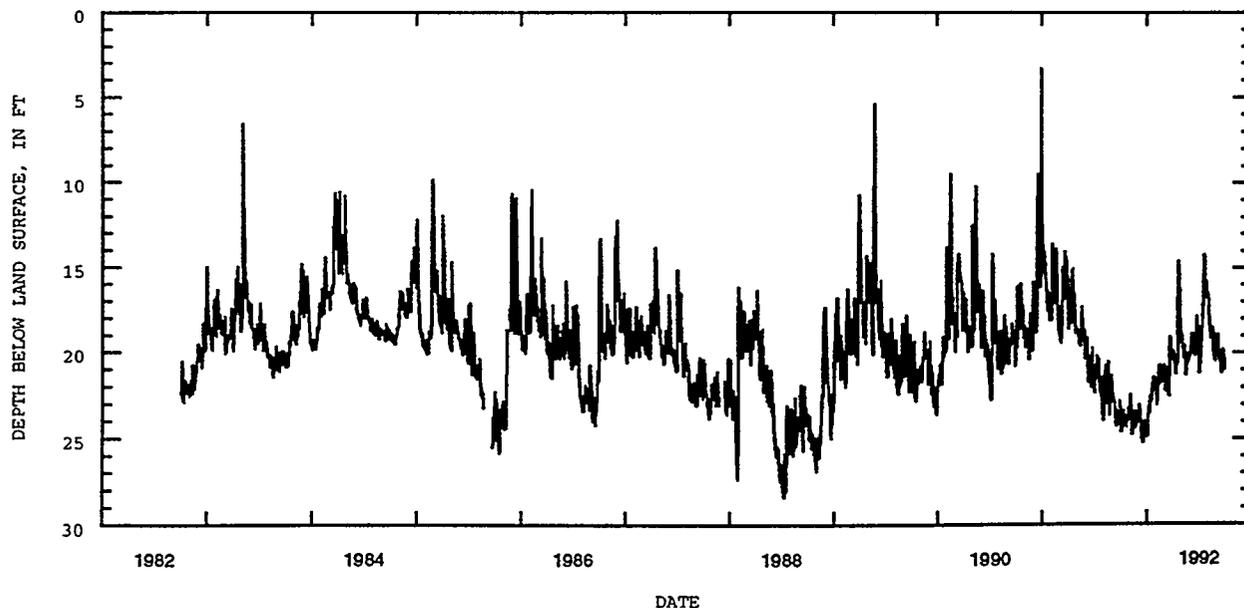
PERIOD OF RECORD.--April 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 28.40 ft below land-surface datum, July 11, 1988;  
minimum daily low, 2.00 ft above land surface, May 24, 25, 1968.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.35	23.65	24.00	24.80	21.85	21.20	20.30	18.80	20.10	20.05	16.80	19.05
2	23.60	23.65	23.85	24.75	21.90	20.80	20.30	18.90	20.10	20.80	16.75	19.30
3	23.75	23.65	23.85	24.85	21.95	20.75	20.20	19.10	19.90	21.15	16.55	19.35
4	24.10	23.05	23.60	24.85	22.30	21.30	19.90	19.35	19.70	21.15	17.10	19.25
5	24.60	22.65	23.25	24.80	22.65	21.60	20.25	19.55	19.65	20.95	17.65	18.90
6	24.60	22.40	23.00	24.00	23.00	21.80	20.25	19.65	19.40	20.35	18.05	19.00
7	24.25	22.65	23.10	23.25	23.05	22.10	20.40	20.00	18.90	20.40	18.30	19.70
8	24.35	23.35	23.10	23.15	22.65	22.25	20.85	20.30	18.85	20.15	18.50	20.10
9	24.40	23.90	23.45	23.25	22.10	22.15	21.05	20.15	18.95	19.55	18.70	20.25
10	24.00	24.40	23.85	23.40	21.75	21.60	21.20	19.60	19.20	19.05	18.90	20.45
11	23.35	24.65	24.00	23.55	21.80	21.10	21.10	19.55	19.45	18.65	19.05	20.50
12	23.45	24.75	24.25	23.55	21.80	20.85	21.15	19.85	19.55	18.35	19.05	20.35
13	23.50	24.75	24.55	23.10	21.80	21.00	21.15	20.05	20.00	18.05	19.00	20.30
14	23.60	24.75	24.75	22.65	21.30	21.25	20.85	20.15	20.10	17.85	19.00	20.05
15	23.70	24.20	24.95	22.50	20.95	21.60	20.60	20.10	19.85	17.85	19.05	20.05
16	23.80	23.70	25.00	22.60	20.75	21.90	20.60	20.70	20.05	17.45	18.95	20.50
17	23.80	23.75	24.80	22.75	20.80	22.20	20.55	21.25	20.15	16.90	18.65	21.05
18	23.80	23.75	25.10	22.75	21.35	22.40	20.55	21.25	20.15	15.85	18.50	21.15
19	23.90	23.65	25.25	22.25	21.65	22.45	20.10	21.00	19.45	14.95	18.90	21.00
20	24.20	23.40	25.20	22.15	21.75	21.80	17.70	20.25	18.90	14.20	19.40	20.55
21	24.25	23.50	24.70	22.25	21.75	20.90	15.70	20.00	19.00	14.40	19.85	20.45
22	24.25	23.65	24.55	22.10	21.75	20.10	14.55	20.30	19.10	15.05	20.00	20.00
23	24.15	24.00	24.25	21.80	21.30	19.10	14.80	20.40	18.90	15.65	20.15	19.75
24	24.05	24.35	23.95	21.95	21.20	19.95	15.00	20.45	18.30	15.90	20.25	19.85
25	24.00	24.40	24.05	21.95	21.50	20.25	15.80	20.55	17.85	16.00	20.35	20.00
26	23.90	24.15	24.20	21.65	21.45	20.35	16.70	20.55	18.15	16.00	20.40	20.20
27	23.85	23.85	24.45	21.40	21.00	20.15	17.60	20.20	18.60	15.75	20.40	20.30
28	23.80	24.05	24.55	21.60	21.15	20.05	18.60	20.10	19.05	16.00	20.20	20.40
29	23.45	24.05	24.75	21.80	21.30	20.05	18.85	20.20	19.35	16.35	19.65	20.45
30	23.20	24.05	24.90	21.85	---	19.85	18.80	20.20	19.55	16.65	19.15	20.95
31	23.50	---	24.90	21.85	---	20.15	---	20.05	---	16.75	18.90	---
MAX	24.60	24.75	25.25	24.85	23.05	22.45	21.20	21.25	20.15	21.15	20.40	21.15

CAL YR 1991 LOW 25.25  
WTR YR 1992 LOW 25.25



BUTLER COUNTY--Continued

392017084345200. Local number, BU-7.

LOCATION.--Lat 39°20'17", long 84°34'52", Hydrologic Unit 05080002, 5584 East River Road in Fairfield.

Owner: C. E. Schiering.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 176 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 572.54 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 1.93 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

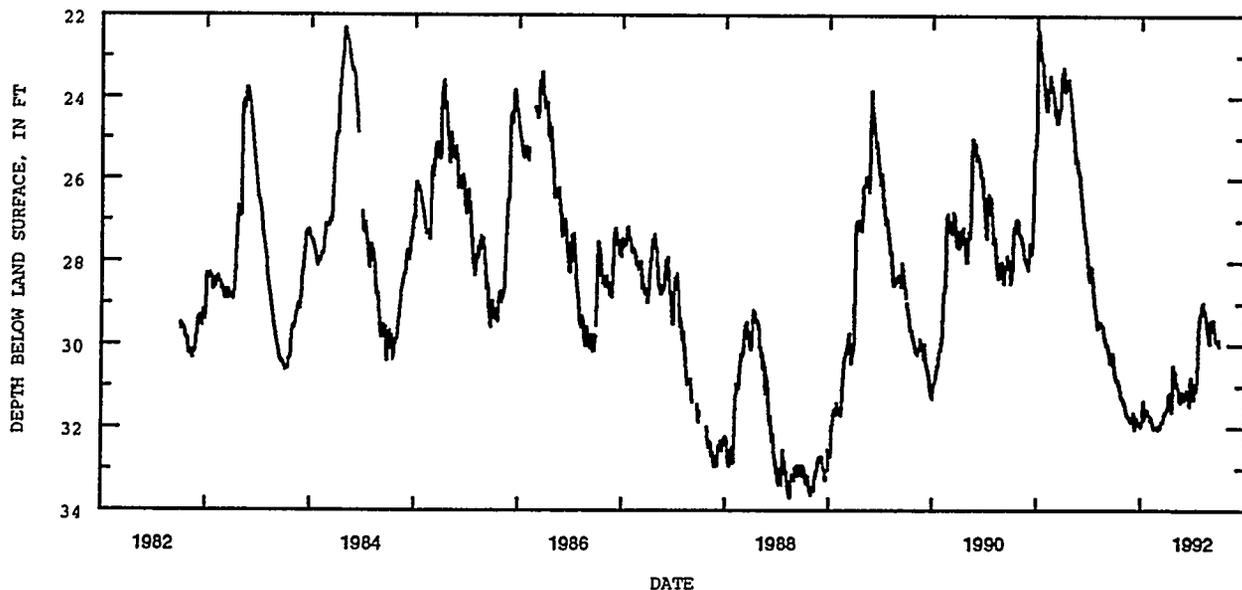
PERIOD OF RECORD.--August 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.70 ft below land-surface datum, Aug. 19, 1988;  
minimum daily low, 11.45 ft below land-surface datum, June 6, 1947.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.61	31.33	31.83	31.97	31.75	32.01	31.57	30.82	31.25	31.28	29.08	29.41
2	30.60	31.34	31.82	31.95	31.77	32.04	31.57	30.87	31.25	31.32	29.04	29.41
3	30.66	31.40	31.82	31.92	31.81	32.03	31.55	30.95	31.24	31.32	29.02	29.44
4	30.73	31.40	31.78	31.90	31.81	32.00	31.50	30.95	31.24	31.29	29.01	29.50
5	30.76	31.42	31.71	31.87	31.81	31.99	31.53	30.93	31.22	31.13	29.07	29.50
6	30.78	31.42	31.65	31.85	31.77	31.99	31.52	30.95	31.23	31.10	29.12	29.48
7	30.84	31.47	31.64	31.75	31.77	31.99	31.30	31.00	31.23	31.00	29.16	29.43
8	30.84	31.48	31.63	31.62	31.73	32.00	31.21	31.01	31.16	30.93	29.18	29.40
9	30.83	31.50	31.75	31.45	31.82	32.00	31.30	31.05	31.14	30.98	29.20	29.47
10	30.85	31.59	31.91	31.33	31.86	31.96	31.36	31.05	31.12	31.09	29.21	29.53
11	30.86	31.60	32.05	31.50	31.86	31.95	31.35	31.13	31.14	31.12	29.24	29.56
12	30.86	31.60	32.05	31.60	31.89	31.84	31.38	31.17	31.16	31.01	29.27	29.62
13	30.89	31.65	32.03	31.70	31.90	31.84	31.37	31.16	31.23	30.94	29.30	29.66
14	30.92	31.67	31.93	31.76	31.94	31.82	31.15	31.27	31.24	30.94	29.34	29.70
15	30.95	31.68	31.82	31.76	31.95	31.87	31.30	31.27	31.28	30.88	29.37	29.78
16	30.95	31.68	31.81	31.73	31.98	31.87	31.51	31.23	31.28	30.68	29.40	29.85
17	30.93	31.71	31.81	31.68	32.02	31.88	31.60	31.35	31.42	30.39	29.47	29.89
18	30.98	31.74	31.80	31.68	32.02	31.88	31.62	31.36	31.43	30.12	29.57	29.89
19	31.03	31.75	31.82	31.57	32.01	31.84	31.59	31.29	31.42	29.86	29.63	29.91
20	31.08	31.75	31.84	31.65	32.00	31.80	31.40	31.27	31.32	29.64	29.68	29.88
21	31.13	31.75	31.87	31.67	32.00	31.76	31.02	31.27	31.07	29.54	29.71	29.91
22	31.15	31.75	31.88	31.67	32.00	31.68	30.65	31.30	30.90	29.46	29.67	29.91
23	31.21	31.74	31.90	31.63	32.00	31.67	30.49	31.31	30.87	29.40	29.70	29.92
24	31.23	31.76	31.91	31.57	32.00	31.65	30.51	31.23	30.83	29.40	29.83	29.92
25	31.25	31.81	31.91	31.60	32.00	31.65	30.62	31.12	30.76	29.33	29.90	29.93
26	31.26	31.82	31.89	31.63	32.00	31.62	30.64	31.14	30.85	29.31	29.95	29.93
27	31.28	31.82	31.90	31.67	32.00	31.59	30.64	31.19	30.95	29.28	29.95	29.90
28	31.29	31.84	31.92	31.67	31.98	31.63	30.65	31.26	31.05	29.24	29.95	29.97
29	31.30	31.84	31.93	31.69	32.00	31.63	30.67	31.32	31.12	29.24	29.72	30.01
30	31.31	31.83	31.94	31.68	---	31.60	30.69	31.32	31.24	29.27	29.56	30.02
31	31.32	---	31.97	31.72	---	31.60	---	31.32	---	29.09	29.50	---
MAX	31.32	31.84	32.05	31.97	32.02	32.04	31.62	31.36	31.43	31.32	29.95	30.02

CAL YR 1991 LOW 32.05  
WTR YR 1992 LOW 32.05



BUTLER COUNTY--Continued

392021084340300. Local number, BU-56.

LOCATION.--Lat 39°20'21", long 84°34'03", Hydrologic Unit 05080002, 1.3 mi east of the Great Miami River in Fairfield.

Owner: Hamilton Water Department.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 5 in., depth 58 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 583.62 ft above National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District.)

Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

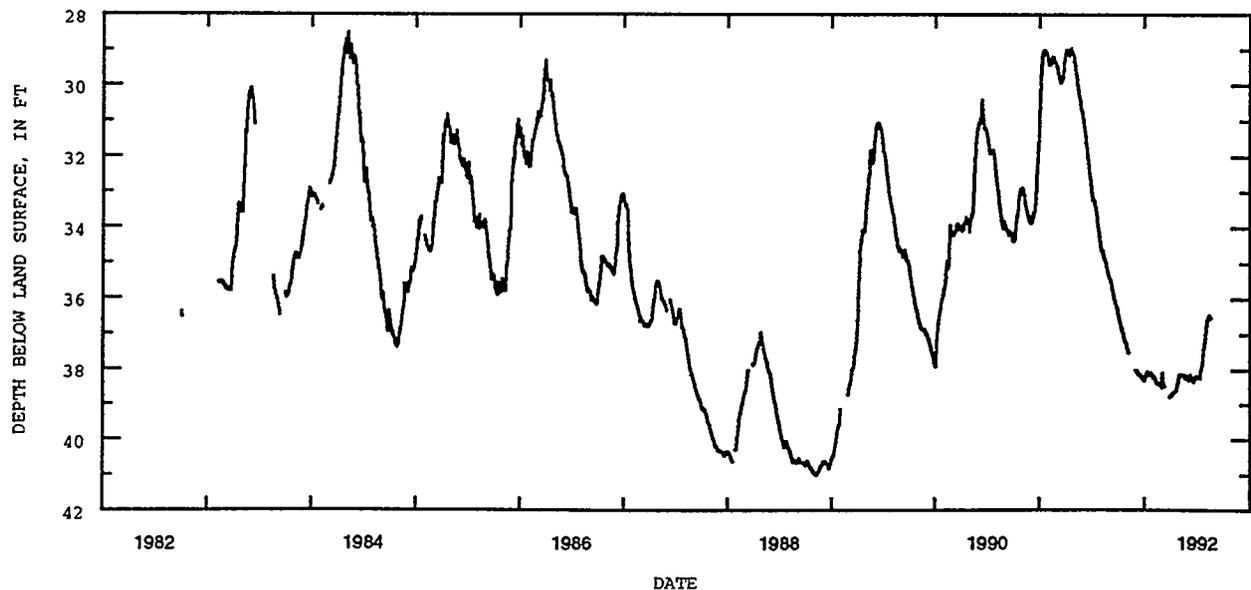
PERIOD OF RECORD.--November 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 41.00 ft below land-surface datum, Nov. 9, 10, 1988;  
minimum daily low, 26.81 ft below land-surface datum, Apr. 10, 1975.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.33	37.31	---	38.29	38.20	38.48	38.76	38.22	38.29	38.22	36.94	---
2	36.36	37.34	---	38.29	38.20	38.48	38.76	38.18	38.28	38.25	36.86	---
3	36.40	37.37	38.03	38.28	38.22	38.30	38.76	38.16	38.29	38.27	36.79	---
4	36.44	37.40	38.03	38.25	38.23	38.16	38.71	38.15	38.29	38.22	36.75	---
5	36.49	37.43	38.03	38.23	38.24	38.08	38.73	38.15	38.29	38.22	36.65	---
6	36.54	37.45	38.04	38.20	38.20	38.17	38.74	38.15	38.20	38.22	36.63	---
7	36.57	37.50	38.05	38.20	38.24	38.33	38.73	38.15	38.18	38.22	36.60	---
8	36.61	37.52	38.06	38.18	38.26	38.43	38.72	38.15	38.19	38.20	36.58	---
9	36.65	---	38.08	38.13	38.28	38.48	38.70	38.14	38.20	38.19	36.57	---
10	36.67	---	38.09	38.12	38.29	38.48	38.68	38.14	38.20	38.20	36.56	---
11	36.70	---	38.11	38.10	38.32	38.48	38.67	38.14	38.21	38.20	36.53	---
12	36.75	---	38.12	38.10	38.33	38.48	38.67	38.14	38.22	38.21	36.51	---
13	36.77	---	38.13	38.10	38.34	38.49	38.67	38.15	38.23	38.12	36.49	---
14	36.79	---	38.14	38.12	38.37	---	38.67	38.16	38.25	38.07	36.49	---
15	36.83	---	38.14	38.11	38.38	---	38.66	38.17	38.27	38.03	36.50	---
16	36.86	---	38.14	38.12	38.38	---	38.65	38.17	38.28	38.02	36.51	---
17	36.87	---	38.14	38.11	38.38	---	38.65	38.18	38.29	37.98	36.53	---
18	36.91	---	38.16	38.13	38.40	---	38.65	38.19	38.32	37.93	---	---
19	36.95	---	38.18	38.13	38.40	---	38.60	38.20	38.31	37.88	---	---
20	36.97	---	38.19	38.11	38.41	---	38.61	38.20	38.31	37.83	---	---
21	37.00	---	38.19	38.11	38.42	---	38.60	38.21	38.31	37.76	---	---
22	37.04	---	38.20	38.13	38.43	---	38.59	38.19	38.31	37.68	---	---
23	37.08	---	38.20	38.12	38.43	---	38.56	38.21	38.30	37.61	---	---
24	37.10	---	38.20	38.13	38.43	---	38.50	38.21	38.26	37.52	---	---
25	37.15	---	38.23	38.13	38.43	---	38.44	38.21	38.25	37.44	---	---
26	37.17	---	38.24	38.14	38.43	---	38.41	38.21	38.24	37.37	---	---
27	37.19	---	38.25	38.14	38.45	---	38.38	38.22	38.21	37.30	---	---
28	37.20	---	38.25	38.15	38.46	---	38.35	38.23	38.20	37.24	---	---
29	37.23	---	38.27	38.16	38.47	---	38.31	38.25	38.20	37.18	---	---
30	37.25	---	38.28	38.16	---	---	38.27	38.27	38.20	37.11	---	---
31	37.26	---	38.29	38.18	---	38.77	---	38.28	---	37.02	---	---
MAX	37.26	37.52	38.29	38.29	38.47	38.77	38.76	38.28	38.32	38.27	36.94	---

CAL YR 1991 LOW 38.29  
WTR YR 1992 LOW 38.77



BUTLER COUNTY--Continued

392048084311400. Local number, BU-8.

LOCATION.--Lat 39°20'48", long 84°31'14", Hydrologic Unit 05080002, Symmes and Gilmore Road, east of Hamilton.

Owner: Hamilton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 200 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 630 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 4.13 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

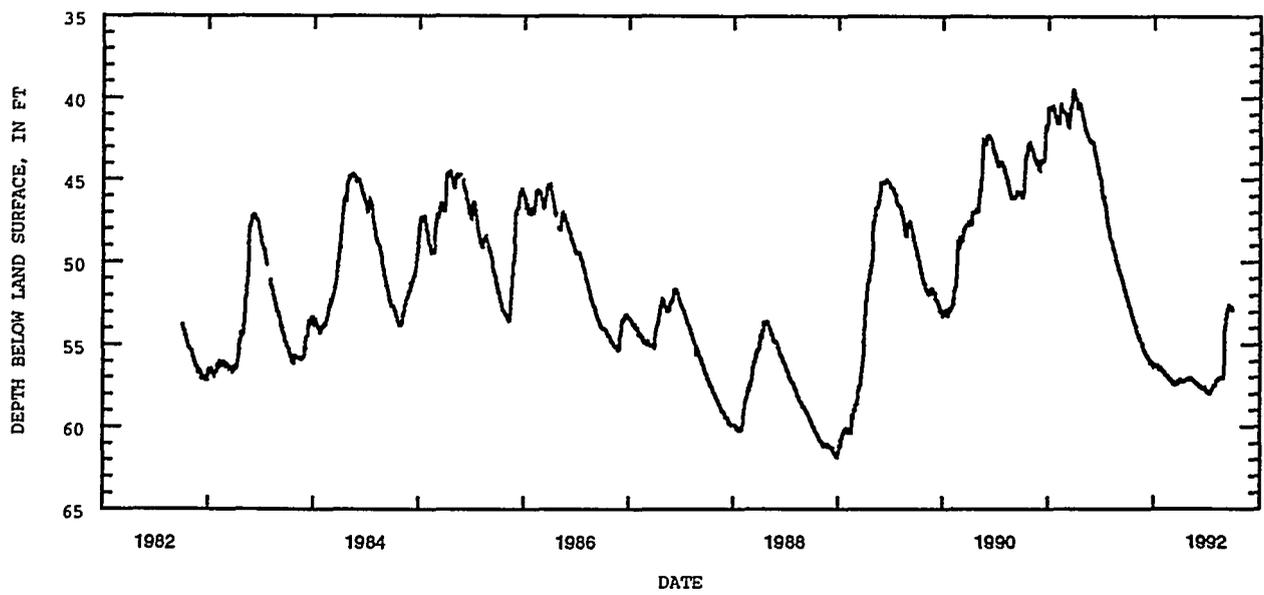
PERIOD OF RECORD.--April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 71.70 ft below land-surface datum, Oct. 24, 1944;  
minimum daily low, 38.24 ft below land-surface datum, June 8, 1947.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.18	53.93	55.50	56.33	56.60	57.18	57.26	57.06	57.43	57.79	57.45	55.05
2	52.21	54.00	55.52	56.33	56.63	57.21	57.26	57.06	57.44	57.81	57.44	54.64
3	52.25	54.10	55.50	56.31	56.64	57.24	57.26	57.05	57.45	57.83	57.32	54.18
4	52.30	54.19	55.60	56.32	56.65	57.26	57.21	57.07	57.45	57.87	57.22	54.03
5	52.36	54.23	55.65	56.32	56.66	57.28	57.19	57.08	57.45	57.88	57.21	53.95
6	52.47	54.26	55.67	56.32	56.67	57.29	57.23	57.12	57.47	57.91	57.22	53.64
7	52.55	54.32	55.68	56.34	56.67	57.29	57.23	57.15	57.50	57.94	57.22	53.48
8	52.62	54.40	55.69	56.34	56.70	57.32	57.24	57.15	57.53	57.95	57.19	53.28
9	52.67	54.45	55.70	56.30	56.78	57.35	57.24	57.08	57.55	57.95	57.15	53.17
10	52.70	54.47	55.75	56.31	56.83	57.30	57.25	57.09	57.57	57.96	57.15	52.98
11	52.71	54.50	55.78	56.33	56.85	57.30	57.25	57.11	57.58	57.99	57.12	52.97
12	52.77	54.55	55.80	56.34	56.89	57.35	57.28	57.11	57.60	58.00	57.10	52.98
13	52.87	54.58	55.81	56.34	56.88	57.38	57.30	57.10	57.60	57.99	57.10	52.95
14	52.90	54.63	55.87	56.22	56.88	57.40	57.30	57.12	57.60	57.98	57.08	52.84
15	52.96	54.66	55.91	56.33	56.88	57.45	57.30	57.14	57.62	57.92	57.07	52.81
16	53.05	54.74	55.94	56.38	56.87	57.48	57.27	57.17	57.65	57.86	57.05	52.81
17	53.12	54.80	55.95	56.37	56.90	57.47	57.21	57.19	57.66	57.84	57.03	52.79
18	53.18	54.82	56.04	56.42	56.93	57.47	57.21	57.21	57.66	57.78	57.02	52.74
19	53.27	54.87	56.12	56.44	56.95	57.37	57.22	57.24	57.66	57.77	57.00	52.68
20	53.33	54.91	56.14	56.39	57.00	57.40	57.21	57.26	57.67	57.74	56.99	52.69
21	53.36	54.97	56.14	56.40	57.04	57.42	57.17	57.28	57.70	57.69	57.00	52.69
22	53.42	55.02	56.14	56.40	57.06	57.37	57.16	57.29	57.71	57.68	57.01	52.69
23	53.48	55.06	56.08	56.37	57.07	57.28	57.18	57.29	57.71	57.64	57.02	52.76
24	53.53	55.12	56.04	56.34	57.08	57.32	57.18	57.29	57.68	57.60	57.03	52.80
25	53.57	55.23	56.10	56.42	57.10	57.33	57.13	57.30	57.67	57.60	57.05	52.80
26	53.62	55.31	56.14	56.51	57.10	57.33	57.12	57.30	57.69	57.59	57.07	52.81
27	53.68	55.34	56.20	56.53	57.10	57.31	57.12	57.33	57.72	57.49	57.06	52.79
28	53.74	55.38	56.21	56.56	57.10	57.35	57.13	57.37	57.74	57.49	56.88	52.81
29	53.80	55.41	56.22	56.58	57.14	57.35	57.13	57.38	57.76	57.50	56.55	52.86
30	53.87	55.44	56.27	56.58	---	57.31	57.10	57.39	57.78	57.49	55.96	52.89
31	53.91	---	56.31	56.56	---	57.27	---	57.42	---	57.46	55.40	---
MAX	53.91	55.44	56.31	56.58	57.14	57.48	57.30	57.42	57.78	58.00	57.45	55.05

CAL YR 1991 LOW 56.31  
WTR YR 1992 LOW 58.00



BUTLER COUNTY--Continued

392445084333000. Local number BU-36.  
 LOCATION.--Lat 39°24'45", long 84°33'30", Hydrologic Unit 05080002, on right bank of Great Miami River 300 ft  
 downstream from Two mile Creek in Hamilton.  
 Owner: Champion Paper Company.  
 AQUIFER.--Sand and gravel of Pleistocene Age.  
 WELL CHARACTERISTICS.--Drilled industrial supply water-table well, diameter 30 in, depth 168 ft cased.  
 PERIOD OF RECORD.--December 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
NOV 26...	1150	883	7.5	8.5	15.5	<10	110	34	34	3.8	372
APR 16...	1230	894	7.3	24.0	17.0	11	110	32	32	3.7	377
AUG 13...	1130	885	7.5	26.5	16.5	<10	110	32	31	3.7	383

DATE	ALKA- LINITY WAT WH TOT PET FIELD MG/L AS CACO3 (00410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
NOV 26...	306	96	58	0.20	11	546	<0.010	2.20	<1	<1
APR 16...	306	87	59	0.10	11	520	<0.010	1.90	--	--
AUG 13...	313	96	63	0.20	11	516	<0.010	1.80	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 26...	10	--	1	<3	1	<1	3	30	33	0.9
APR 16...	--	--	--	<3	--	--	1	--	--	0.9
AUG 13...	10	3	2	<3	1	<1	3	20	23	0.9

## BUTLER COUNTY--Continued

393202084241500. Local number, BU-15.

LOCATION.--Lat 39°32'02", long 84°24'15", Hydrologic Unit 05080002, at Hook Field (municipal airport) at Middletown.

Owner: City of Middletown.

AQUIFER.--Sand and gravel of Pleistocene Age.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

WELL CHARACTERISTICS.--Drilled observation water table well, diameter 6 in., depth 23 ft cased.

DATUM.--Elevation of land-surface datum is 641 ft, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Water level affected by pumping wells nearby in Middletown well field.

PERIOD OF RECORD.--June 1972 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 14.60 ft below land-surface datum, Jan. 26, 1981;  
minimum daily low, 0.06 ft below land-surface datum, Feb. 25, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 23, 1991	13.37	Apr. 10, 1992	13.00

BUTLER COUNTY--Continued

392737084291300. Local number, BU-16.

LOCATION.--Lat 39°27'37", long 84°29'13", Hydrologic Unit 05080002, Wayne - Madison Rd. 2 mi southwest of Trenton.

Owner: Miller Brewing Co.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 4 in., depth 218 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 640 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter, 4.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to 1992 published as 392733084293000.

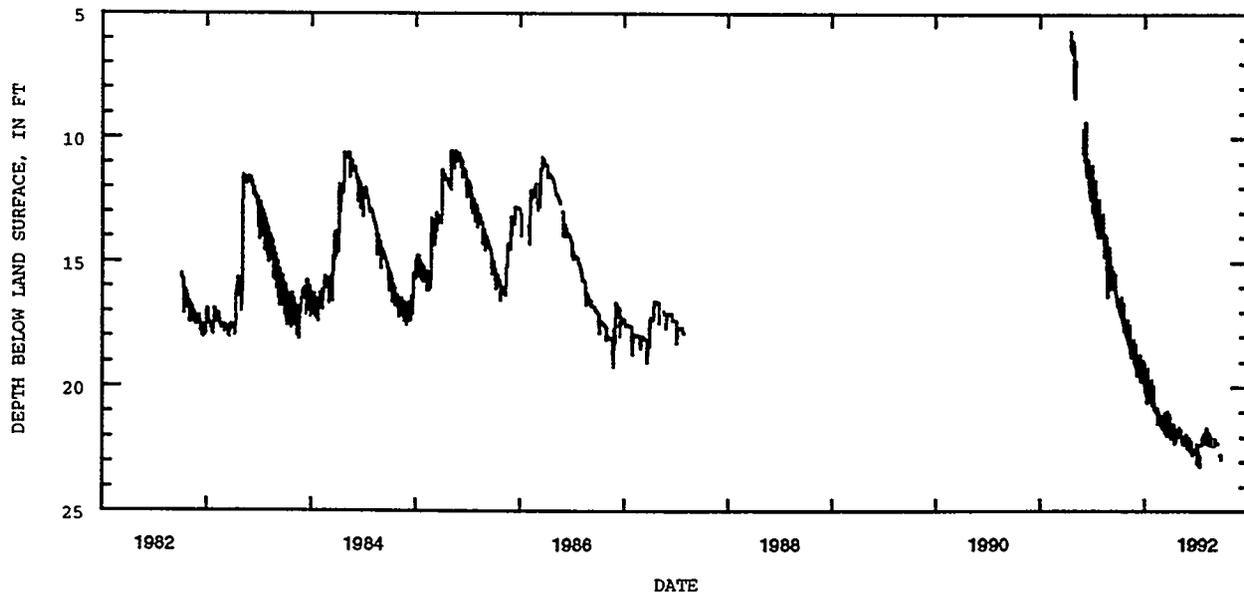
PERIOD OF RECORD.--May 1982 to July 1987. Reactivated April 17, 1991.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 23.20 ft below land-surface datum, July 10, 1992;  
minimum daily low, 5.71 ft below land-surface datum, April. 17, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.59	18.09	18.30	19.09	20.39	21.45	21.58	21.57	22.38	23.06	22.00	22.02
2	16.68	17.26	19.10	19.87	19.90	21.44	21.61	22.01	22.34	23.07	21.63	22.07
3	16.74	18.00	19.11	19.88	20.45	21.21	22.05	21.89	22.34	22.32	21.87	---
4	16.79	18.10	19.13	20.15	20.81	21.66	21.91	21.90	22.01	22.32	21.60	---
5	16.83	18.13	19.35	20.15	20.81	21.57	21.92	21.92	22.13	22.59	21.68	---
6	16.86	18.20	19.52	20.15	20.82	21.57	21.94	21.94	22.53	22.60	22.28	---
7	16.97	18.25	19.30	19.95	20.90	21.57	21.97	21.68	22.48	---	22.20	---
8	16.99	18.27	19.31	20.05	20.90	21.15	21.97	21.70	22.47	---	22.10	---
9	17.04	17.53	19.45	20.58	20.87	21.35	21.49	22.15	22.47	23.12	22.09	22.22
10	17.08	17.54	19.41	20.61	20.92	21.35	22.03	22.06	22.54	23.20	22.09	22.27
11	17.16	18.34	19.44	20.61	21.00	21.37	22.02	22.02	22.17	22.75	21.76	---
12	16.35	18.38	19.51	20.59	21.00	21.83	21.45	22.07	22.61	---	21.81	---
13	16.38	18.44	19.51	19.23	20.83	21.76	21.65	22.07	22.54	---	21.84	---
14	17.12	18.47	19.54	20.46	20.83	21.00	21.78	22.10	22.54	---	22.30	---
15	17.28	18.79	18.74	20.17	20.83	21.17	21.80	22.27	22.54	---	22.28	---
16	17.31	18.58	18.74	20.15	21.05	21.21	22.26	22.27	22.53	22.32	22.28	---
17	17.37	18.62	19.58	20.20	21.08	21.85	22.15	22.15	22.71	22.33	22.30	---
18	17.37	18.65	19.63	20.23	21.45	21.50	22.15	22.15	---	22.31	22.34	22.92
19	16.63	18.69	19.68	20.24	20.94	21.50	22.14	22.23	---	22.15	21.98	---
20	17.40	18.76	19.76	20.29	21.02	21.94	21.92	22.23	---	22.04	22.00	---
21	17.67	18.77	19.76	20.35	21.38	21.78	21.83	21.92	---	22.03	22.05	---
22	17.55	18.82	19.76	20.34	21.28	20.93	21.79	22.33	---	---	---	22.73
23	17.71	18.83	19.47	20.37	21.29	21.20	21.73	22.25	---	---	---	22.68
24	17.69	18.11	19.45	20.42	21.30	21.24	21.86	22.25	---	22.25	---	22.90
25	17.70	18.13	19.46	20.43	21.31	21.27	21.74	22.25	22.70	22.08	---	---
26	17.75	18.91	18.91	19.68	21.33	21.29	21.76	21.93	---	21.85	22.25	---
27	17.76	19.00	19.10	20.73	21.11	21.56	21.79	21.96	---	21.88	22.35	---
28	17.80	19.00	18.98	20.53	21.53	21.57	21.82	21.99	---	22.00	22.35	---
29	17.84	19.01	19.02	20.55	21.45	21.07	22.01	22.00	---	22.08	22.29	---
30	18.00	18.29	19.05	20.55	---	21.33	21.88	22.43	22.28	22.08	22.30	---
31	17.66	---	19.07	20.37	---	21.38	---	22.38	---	22.00	22.30	---
MAX	18.00	19.01	19.76	20.73	21.53	21.94	22.26	22.43	22.71	23.20	22.35	22.92

CAL YR 1991 LOW 19.76  
WTR YR 1992 LOW 23.20



## BUTLER COUNTY--Continued

392939084231700. Local number, BU-3.

LOCATION.--Lat 39°29'39", long 84°23'17", Hydrologic Unit 05080002, Armco Steel Corp. Rt. 122 in Middletown.

Owner: Armco Steel Corp.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in., depth 250 ft, cased.

INSTRUMENTATION.--Digital recorder - - 60-minute punch.

DATUM.--Elevation of land-surface datum is 668 ft above National Geodetic Vertical Datum of 1929, from topographic map.

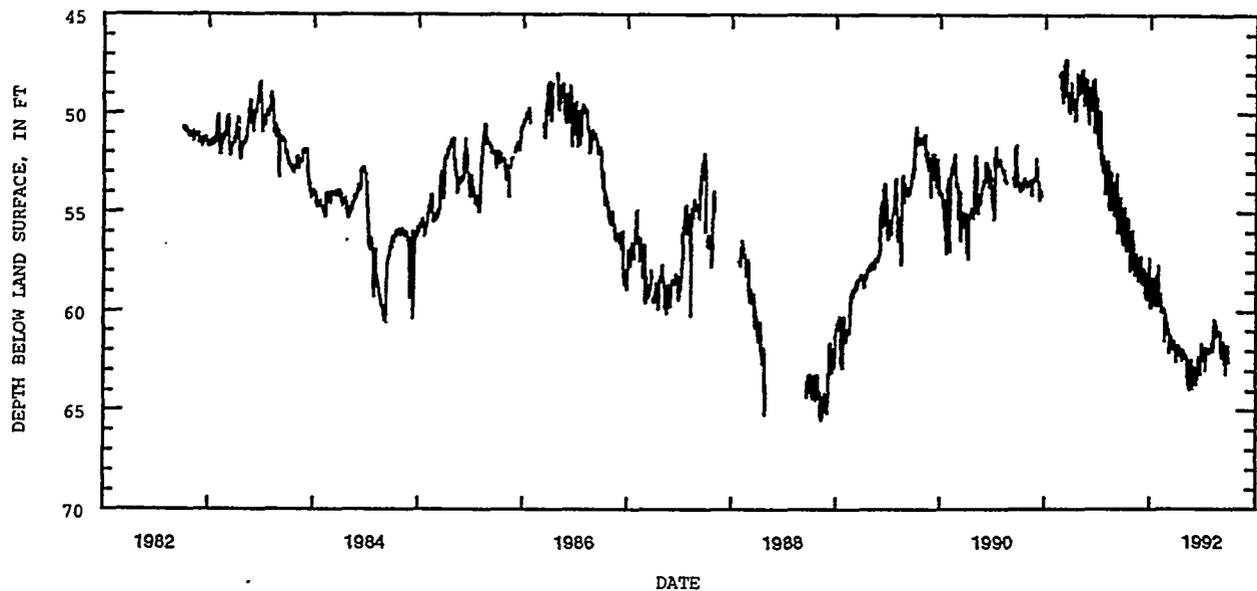
Measuring point: Floor of instrument shelter 1.08 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 147.27 ft below land-surface datum, Apr. 4, 1955;  
minimum daily low, 45.27 ft below land-surface datum, July 21, 1980.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55.10	55.94	57.26	58.59	59.32	60.62	62.06	62.17	63.63	61.91	61.84	61.66
2	54.89	56.06	57.59	58.75	59.49	60.78	62.55	62.16	63.48	61.98	61.63	61.49
3	54.79	56.10	58.02	59.35	59.72	60.92	61.70	62.21	63.24	62.05	61.63	61.96
4	54.79	56.93	58.52	59.71	59.01	61.03	61.70	62.17	63.11	62.08	61.61	62.19
5	54.83	57.38	58.54	59.81	59.03	61.04	61.75	62.28	62.92	61.95	61.70	62.14
6	54.81	57.69	58.43	59.81	59.27	60.93	61.70	62.34	62.86	62.07	61.73	62.23
7	56.31	57.72	58.40	58.65	59.31	61.15	61.68	62.40	62.91	61.99	62.04	62.35
8	56.70	58.12	58.48	58.44	59.06	61.14	61.75	62.32	63.01	61.84	60.83	62.26
9	56.77	58.12	58.52	58.28	59.08	62.10	61.70	62.38	63.11	62.02	61.02	61.79
10	56.79	58.14	57.98	58.68	59.65	61.33	61.76	62.41	63.71	61.85	60.39	61.65
11	56.96	58.17	57.89	58.79	60.00	61.41	61.77	62.93	63.05	62.99	60.75	61.66
12	56.83	57.33	57.81	58.84	59.88	61.50	61.88	63.05	62.99	61.92	60.86	61.60
13	56.87	57.12	58.09	59.16	59.86	61.52	62.07	63.28	63.08	61.87	60.85	61.50
14	56.74	57.05	57.99	59.57	59.84	61.22	62.11	63.36	63.33	61.81	60.58	61.82
15	55.79	57.34	57.95	59.53	59.84	61.37	62.26	63.47	63.43	61.91	60.68	62.14
16	55.85	57.53	58.53	59.69	60.05	61.40	61.86	63.96	62.68	61.93	60.68	62.22
17	55.53	57.54	58.91	59.69	59.96	61.51	62.10	63.47	62.54	61.99	60.83	62.66
18	55.37	57.89	59.23	59.35	59.90	61.51	62.22	63.54	62.29	61.99	61.33	62.31
19	55.40	58.09	59.28	59.19	59.79	61.40	62.25	62.95	62.60	61.94	60.93	62.42
20	55.35	58.13	59.30	58.88	59.87	61.46	62.28	62.92	62.42	61.91	60.92	62.38
21	56.61	58.18	59.12	58.41	59.90	61.47	62.46	62.89	62.39	62.15	61.04	63.18
22	56.85	58.46	58.84	58.37	61.51	61.93	62.45	62.65	62.60	62.01	60.97	62.09
23	56.52	58.28	58.65	58.17	59.96	61.87	62.47	62.53	62.69	61.95	61.03	62.09
24	56.67	58.23	58.23	58.46	60.27	61.77	62.01	62.45	62.78	61.95	61.04	61.94
25	57.98	58.38	58.15	58.83	60.43	61.64	61.96	62.44	62.75	61.97	61.08	61.80
26	57.15	57.72	58.08	59.40	60.47	61.49	61.99	62.87	63.19	61.86	61.05	61.73
27	56.87	57.37	58.14	59.71	60.47	61.68	62.04	63.03	61.92	61.96	60.98	61.75
28	56.88	57.28	58.26	58.37	60.55	61.69	62.12	63.90	61.60	61.99	61.04	62.13
29	56.11	57.19	57.29	57.68	60.60	61.70	62.40	63.16	61.80	61.94	61.06	62.59
30	56.02	57.27	58.29	58.03	---	61.91	62.16	63.13	61.84	61.89	61.00	62.54
31	55.97	---	58.57	59.02	---	62.02	---	63.26	---	61.82	61.08	---
MAX	57.98	58.46	59.30	59.81	61.51	62.10	62.55	63.96	63.71	62.99	62.04	63.18

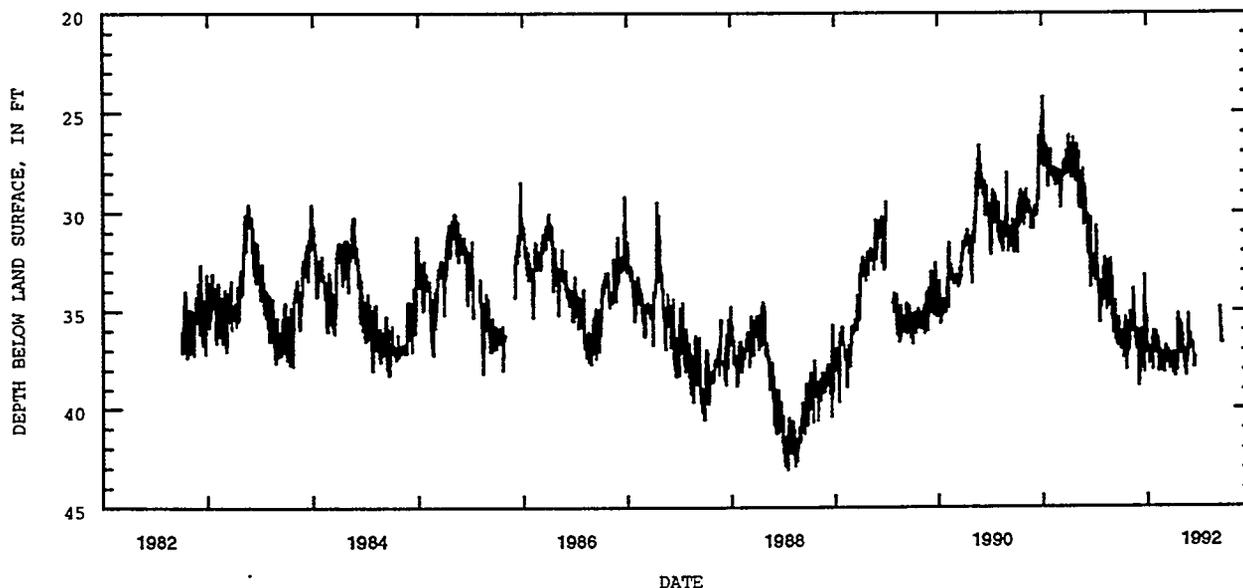
CAL YR 1991 LOW 59.30  
WTR YR 1992 LOW 63.96

BUTLER COUNTY--Continued

393103084240900. Local number, BU-2  
 LOCATION.--Lat 39°31'03", long 84°24'09", Hydrologic Unit 05080002, in basement of YMCA in Middletown.  
 Owner: Middletown YMCA.  
 AQUIFER.--Sand and gravel of Pleistocene Age.  
 WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 88 ft, cased.  
 INSTRUMENTATION.--Digital recorder - - 60-minute punch.  
 DATUM.--Elevation of land-surface datum is 636.27 ft above National Geodetic Vertical Datum of 1929.  
 Measuring point: Top of platform 14.77 ft below land-surface datum.  
 REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.  
 PERIOD OF RECORD.--October 1942 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 52.15 ft below land-surface datum, Sept. 28, Nov. 5, 1953 and Jan. 22, 1954; minimum daily low, 24.21 ft below land-surface datum, Jan. 6, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.23	36.25	36.63	35.24	36.05	37.79	37.75	36.78	36.62	---	---	---
2	36.03	36.27	36.11	36.87	36.02	38.17	38.18	37.04	36.94	---	---	---
3	36.02	35.86	37.56	36.61	36.88	37.19	38.20	36.33	36.55	---	---	---
4	36.43	36.58	38.84	36.71	37.22	37.32	37.38	36.59	36.71	---	---	---
5	36.96	35.03	38.44	36.81	36.92	36.87	37.09	36.19	36.86	---	---	---
6	36.30	35.56	36.35	36.91	37.16	37.06	37.53	37.09	36.58	---	---	---
7	36.33	35.20	38.17	37.56	37.04	36.83	38.01	36.83	36.68	---	---	---
8	36.13	35.70	36.82	37.70	36.45	36.76	37.79	37.51	36.76	---	---	---
9	36.29	35.46	36.00	37.30	36.35	36.96	38.35	37.27	36.68	---	---	---
10	36.15	35.67	37.11	37.42	36.86	37.48	37.70	37.49	37.09	---	---	34.85
11	36.58	35.83	37.92	37.37	37.48	37.51	37.30	37.88	37.31	---	---	35.08
12	35.99	35.88	37.77	37.27	38.09	37.52	37.17	37.17	37.44	---	---	35.07
13	36.10	36.07	36.51	37.34	37.26	37.68	37.49	37.90	37.89	---	---	35.09
14	37.39	35.98	35.94	37.16	37.78	37.50	37.76	37.94	37.85	---	---	35.14
15	36.63	35.49	36.55	37.05	38.07	36.95	38.07	37.98	37.82	---	---	35.20
16	36.94	33.88	36.27	37.11	36.97	37.51	37.68	38.33	37.37	---	---	36.58
17	36.27	34.63	36.38	37.26	37.66	37.77	37.62	37.20	37.37	---	---	36.61
18	35.95	34.68	36.39	37.16	37.93	37.48	35.80	37.37	---	---	---	36.60
19	35.31	35.65	36.37	36.49	37.42	37.55	35.13	37.16	---	---	---	36.60
20	36.22	36.42	36.27	36.52	37.53	37.88	35.50	37.64	---	---	---	36.60
21	36.43	36.29	36.38	36.31	37.56	37.85	36.79	36.69	---	---	---	36.62
22	37.59	36.33	36.75	38.02	37.52	37.11	36.93	37.34	---	---	---	36.64
23	37.99	35.89	38.17	36.03	37.10	37.66	36.65	37.19	---	---	---	---
24	36.62	35.98	35.36	36.38	38.07	37.73	36.36	35.94	---	---	---	---
25	35.59	36.81	33.18	36.67	37.73	37.79	36.53	35.17	---	---	---	---
26	36.26	36.05	33.45	36.81	37.73	37.68	35.55	36.93	---	---	---	---
27	35.72	36.98	36.40	36.64	37.41	37.89	36.25	37.02	---	---	---	---
28	37.05	36.86	36.67	36.51	37.56	37.89	36.42	36.52	---	---	---	---
29	35.78	35.93	36.32	36.88	37.50	37.55	37.21	36.82	---	---	---	---
30	36.99	36.14	36.28	36.23	---	37.57	35.69	36.76	---	---	---	---
31	36.19	---	36.14	36.20	---	37.99	---	36.16	---	---	---	---
MAX	37.99	36.98	38.84	38.02	38.09	38.17	38.35	38.33	37.89	---	---	36.64
CAL YR 1991	LOW 38.84											
WTR YR 1992	LOW 38.84											



CARROLL COUNTY

403709081052800. Local number, C-1.

LOCATION.--Lat 40°37'09", long 81°05'28", Hydrologic Unit 05040001, Carrollton well field, State Route 171, 3 mi north of Carrollton.

Owner: Carrollton Water Department.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 70 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1050 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of platform 3.0 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

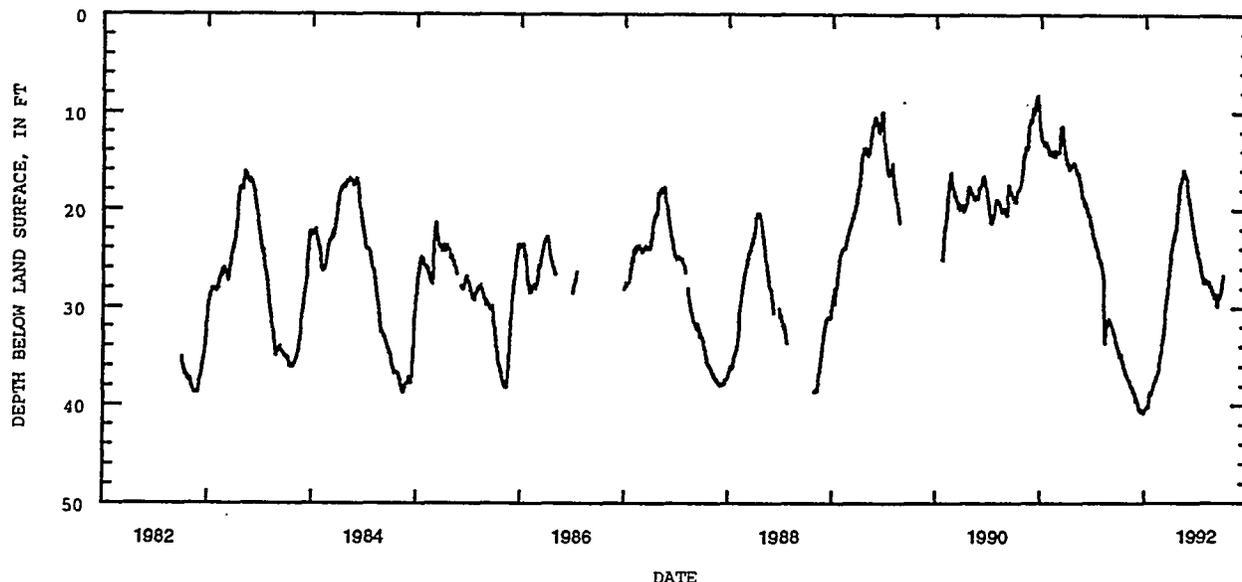
PERIOD OF RECORD.--August 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 40.76 ft below land-surface datum, Dec. 30, 1991; minimum daily low, 7.20 ft below land-surface datum, Jan. 10, 1971.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.36	36.99	39.27	40.60	38.01	34.30	24.93	17.98	19.10	24.12	27.39	28.78
2	34.37	37.03	39.37	40.57	37.90	34.16	24.74	17.64	19.32	24.16	27.28	28.75
3	34.52	37.16	39.35	40.51	37.81	33.91	24.52	17.56	19.32	24.16	27.27	28.78
4	34.55	37.25	39.49	40.43	37.71	33.63	24.16	17.35	19.33	24.60	27.33	28.82
5	34.79	37.27	39.56	40.43	37.67	33.39	24.13	17.19	19.59	24.73	27.37	28.98
6	34.92	37.34	39.63	40.39	37.53	33.12	23.92	17.15	19.87	24.93	27.35	29.18
7	35.01	37.39	39.47	40.32	37.49	32.88	23.56	17.06	20.08	25.05	27.33	29.72
8	35.07	37.48	39.71	40.19	37.43	32.66	23.47	16.80	20.20	25.13	27.30	29.76
9	35.06	37.54	39.85	40.14	37.43	32.40	23.24	16.71	20.48	25.37	27.33	29.73
10	34.83	37.66	39.94	40.20	37.38	31.84	23.13	16.70	20.68	25.51	27.32	29.50
11	34.74	37.78	40.05	40.14	37.27	31.33	22.92	16.56	20.90	25.69	27.35	29.40
12	34.97	37.85	40.12	40.26	37.23	31.03	22.94	16.36	21.01	25.80	27.59	28.92
13	35.16	37.94	40.19	40.26	37.10	30.79	22.86	15.85	21.20	26.00	27.70	28.79
14	35.34	37.99	40.34	40.21	37.12	30.39	22.57	16.00	21.36	26.14	27.76	28.74
15	35.41	38.03	40.45	39.90	36.97	30.12	22.49	16.13	21.59	26.33	27.73	28.83
16	35.52	38.07	40.45	39.53	37.05	29.87	22.33	16.27	21.73	26.49	27.75	28.95
17	35.58	38.12	40.53	39.10	36.95	29.41	22.26	16.31	21.90	26.62	27.77	29.03
18	35.69	38.16	40.54	38.91	36.78	29.33	22.15	16.41	22.01	26.75	27.84	28.93
19	35.80	38.21	40.51	38.88	36.63	28.84	21.93	16.52	22.27	26.82	27.97	28.96
20	36.04	38.26	40.46	39.02	36.52	28.79	21.63	16.58	22.44	26.92	28.04	28.64
21	36.14	38.37	40.45	38.89	36.32	28.49	21.04	16.68	22.61	27.00	28.12	28.50
22	36.14	38.42	40.51	38.87	36.00	28.03	20.74	16.71	22.73	27.09	28.19	28.52
23	36.22	38.47	40.61	38.84	35.78	27.79	20.45	16.72	22.82	27.21	28.25	28.47
24	36.28	38.57	40.59	38.81	35.56	27.49	19.87	16.85	23.03	27.25	28.34	28.19
25	36.37	38.70	40.62	38.75	35.30	27.10	19.58	16.91	23.21	27.31	28.45	27.82
26	36.47	38.74	40.68	38.69	35.06	26.63	19.25	17.24	23.34	27.26	28.53	27.50
27	36.64	38.82	40.68	38.49	34.90	26.21	18.99	17.73	23.53	27.34	28.59	27.26
28	36.74	38.83	40.66	38.42	34.73	26.14	18.70	18.07	23.65	27.38	28.76	27.10
29	36.75	38.98	40.72	38.28	34.68	25.76	18.39	18.29	23.79	27.38	28.83	26.93
30	36.83	39.19	40.76	38.10	---	25.24	18.06	18.57	23.97	27.40	28.73	26.72
31	36.90	---	40.68	38.04	---	25.05	---	18.88	---	27.40	28.77	---
MAX	36.90	39.19	40.76	40.60	38.01	34.30	24.93	18.88	23.97	27.40	28.83	29.76

CAL YR 1991 LOW 40.76  
WTR YR 1992 LOW 40.76



CHAMPAIGN COUNTY

400638083453900. Local number, CH-3.

LOCATION.--Lat 40°06'38", long 83°45'39", Hydrologic Unit 05080001, in Urbana.

Owner: Howard Paper Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 40 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1030 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 4.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

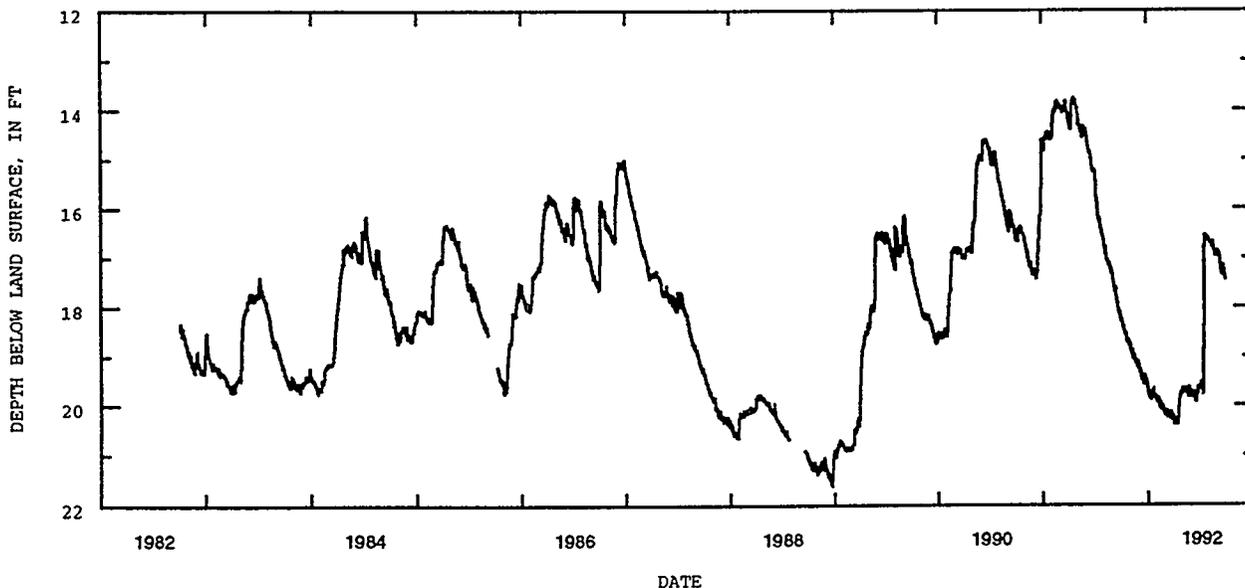
PERIOD OF RECORD.--May 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.80 ft below land-surface datum, Feb. 26-29, Mar. 13, 1964; minimum daily low, 12.45 ft below land-surface datum, Mar. 24, 1975.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.20	18.79	19.10	19.57	19.84	20.07	20.32	19.76	19.75	19.62	16.64	16.87
2	18.23	18.80	19.17	19.64	19.81	20.15	20.34	19.75	19.79	19.62	16.65	16.87
3	18.28	18.72	19.17	19.67	19.87	20.17	20.37	19.64	19.79	19.62	16.66	16.90
4	18.29	18.81	19.24	19.72	19.89	20.19	20.37	19.67	19.81	19.65	16.68	16.91
5	18.31	18.86	19.30	19.76	19.93	20.20	20.25	19.69	19.80	19.51	16.70	16.92
6	18.24	18.89	19.32	19.79	19.93	20.20	20.32	19.70	19.83	19.56	16.71	16.93
7	18.31	18.91	19.34	19.81	19.95	20.11	20.39	19.71	19.72	19.61	16.72	16.93
8	18.34	18.93	19.27	19.82	19.87	20.08	20.39	19.72	19.71	19.68	16.71	16.94
9	18.38	18.96	19.36	19.82	19.84	20.15	20.38	19.72	19.78	19.70	16.71	16.99
10	18.40	18.86	19.40	19.85	19.94	20.19	20.37	19.73	19.81	19.72	16.72	17.03
11	18.43	18.94	19.43	19.87	19.96	20.21	20.38	19.65	19.81	19.76	16.72	17.08
12	18.45	18.98	19.44	19.79	19.99	20.20	20.39	19.68	19.84	19.75	16.72	17.11
13	18.39	19.01	19.45	19.86	20.00	20.23	20.34	19.71	19.87	19.73	16.74	17.14
14	18.46	19.04	19.44	19.83	20.03	20.24	20.35	19.74	19.89	19.86	16.79	17.19
15	18.51	19.06	19.37	19.72	20.04	20.18	20.38	19.73	19.90	18.77	16.79	17.27
16	18.52	19.07	19.46	19.75	19.93	20.23	20.39	19.76	19.91	18.74	16.67	17.30
17	18.53	18.97	19.50	19.75	19.99	20.24	20.15	19.75	19.93	18.02	16.74	17.32
18	18.56	19.04	19.52	19.77	20.03	20.24	20.11	19.76	19.93	16.87	16.78	17.34
19	18.58	19.06	19.55	19.70	20.03	20.15	19.96	19.75	19.75	16.69	16.81	17.35
20	18.53	19.08	19.57	19.68	20.04	20.16	19.91	19.79	19.77	16.57	16.83	17.37
21	18.60	19.11	19.58	19.77	20.06	20.19	19.88	19.81	19.70	16.57	16.85	17.33
22	18.63	19.13	19.51	19.81	20.07	20.11	19.84	19.83	19.75	16.56	16.86	17.15
23	18.66	19.14	19.51	19.84	19.99	20.18	19.83	19.84	19.77	16.59	16.88	17.19
24	18.69	19.06	19.49	19.84	20.05	20.21	19.81	19.72	19.61	16.60	16.91	17.21
25	18.71	19.14	19.44	19.86	20.08	20.24	19.79	19.62	19.64	16.60	16.94	17.28
26	18.72	19.17	19.44	19.77	20.10	20.26	19.77	19.70	19.64	16.61	16.98	17.33
27	18.66	19.20	19.47	19.82	20.12	20.28	19.75	19.75	19.62	16.63	16.96	17.38
28	18.69	19.21	19.50	19.85	20.14	20.30	19.74	19.78	19.64	16.65	16.88	17.41
29	18.70	19.12	19.52	19.89	20.15	20.19	19.75	19.78	19.63	16.66	16.94	17.43
30	18.74	19.09	19.55	19.89	---	20.24	19.75	19.70	19.62	16.66	16.95	17.46
31	18.78	---	19.56	19.90	---	20.28	---	19.74	---	16.63	16.87	---
MAX	18.78	19.21	19.58	19.90	20.15	20.30	20.39	19.84	19.93	19.76	16.98	17.46

CAL YR 1991 LOW 19.58  
WTR YR 1992 LOW 20.39



CLARK COUNTY

395639084012200. Local number, CL-9.

LOCATION.--Lat 39°56'39", long 84°01'22", Hydrologic Unit 05080001, at north edge of New Carlisle.

Owner: New Carlisle Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 113 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of platform 2.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

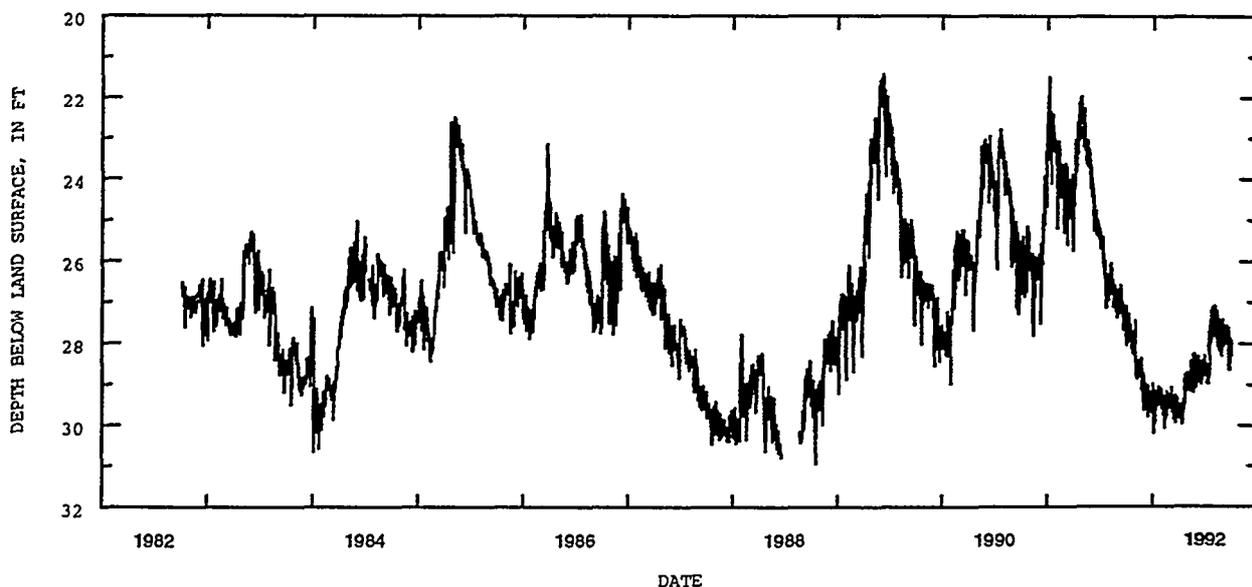
PERIOD OF RECORD.--September 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 31.25 ft below land-surface datum, July 13, 1977;  
minimum daily low, 18.20 ft below land-surface datum, July 4, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.46	27.44	28.79	29.16	29.37	29.43	29.79	28.77	28.66	28.52	27.09	28.06
2	27.08	28.41	29.23	29.39	29.60	29.58	29.75	29.06	28.43	28.78	27.47	27.75
3	27.81	28.13	29.63	29.23	29.15	29.44	29.46	28.70	28.63	28.64	27.49	28.06
4	27.34	28.79	29.58	29.30	29.45	29.26	29.73	28.78	28.40	28.61	27.54	27.58
5	28.05	28.49	29.22	30.19	29.26	29.53	29.77	28.84	28.51	28.63	27.78	27.81
6	27.91	28.67	28.99	29.88	29.40	29.45	29.85	28.90	28.30	28.82	27.67	28.01
7	27.62	28.77	29.47	29.43	29.42	29.05	29.76	28.78	28.55	28.93	27.38	27.84
8	27.84	28.86	29.32	29.15	29.75	29.51	29.82	28.97	28.71	28.98	27.88	27.89
9	27.71	28.79	29.41	29.93	29.45	29.65	29.45	29.18	28.67	28.57	27.21	28.02
10	27.84	28.49	29.12	29.74	29.48	29.29	29.67	29.07	28.80	28.81	27.77	27.76
11	27.27	28.64	29.45	29.49	29.47	29.67	29.75	29.06	28.63	28.98	27.59	27.53
12	27.88	28.40	29.55	29.47	29.26	29.49	29.96	29.08	28.89	28.51	27.33	27.81
13	27.52	28.62	29.35	29.59	29.62	29.38	29.85	28.93	28.94	28.77	28.07	27.74
14	27.73	28.56	29.37	29.41	30.06	29.26	29.66	28.70	28.82	28.81	27.53	27.87
15	27.76	28.64	29.37	29.41	29.61	29.84	29.75	28.41	28.83	28.59	27.47	28.02
16	27.94	28.53	29.02	29.45	29.59	29.60	29.87	28.79	28.98	28.29	27.41	27.90
17	27.53	28.68	29.78	29.19	29.74	29.76	29.50	28.94	28.94	27.73	27.81	27.84
18	27.74	28.72	29.39	29.22	29.57	29.66	29.37	28.73	28.82	27.99	27.76	27.75
19	27.75	28.58	29.44	29.13	29.16	29.25	29.35	28.95	28.71	27.94	27.61	27.61
20	27.99	28.52	29.41	29.51	29.76	29.74	29.59	29.17	28.87	27.67	27.77	27.78
21	28.13	28.35	29.33	29.32	29.23	29.38	29.41	29.21	28.39	27.48	28.14	28.48
22	28.15	28.81	29.25	29.04	29.40	29.93	29.29	29.01	28.65	27.88	27.54	28.65
23	27.94	28.60	29.43	29.44	29.46	29.38	28.87	28.76	28.40	27.61	28.08	28.25
24	27.80	28.69	29.18	29.23	29.60	29.41	28.85	28.26	28.52	27.21	28.30	28.00
25	28.00	29.13	29.44	29.42	29.23	29.83	29.03	28.73	28.53	27.74	27.98	28.17
26	28.25	28.96	29.31	29.20	29.28	29.31	28.75	28.24	28.58	27.52	28.13	27.88
27	27.95	28.95	29.33	29.30	29.29	29.68	29.17	28.73	28.42	27.45	27.55	28.25
28	28.22	29.18	29.55	29.38	29.53	29.51	28.97	28.88	28.29	27.83	27.41	28.13
29	28.12	28.72	29.42	29.10	29.53	29.80	29.11	28.94	28.67	27.11	27.80	28.29
30	27.82	28.90	29.68	29.18	---	29.59	28.78	29.07	28.45	27.50	27.87	27.94
31	27.93	---	28.97	29.34	---	29.62	---	28.90	---	27.20	27.95	---
MAX	28.25	29.18	29.78	30.19	30.06	29.93	29.96	29.21	28.98	28.98	28.30	28.65

CAL YR 1991 LOW 29.78  
WTR YR 1992 LOW 30.19



GROUND-WATER RECORDS

CLARK COUNTY--Continued

395840083495200. Local number, CL-7.

LOCATION.--Lat 39°58'40", long 83°49'52", Hydrologic Unit 05080001. Eagle City Road northwest of Springfield.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 50 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 928.02 ft.

Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

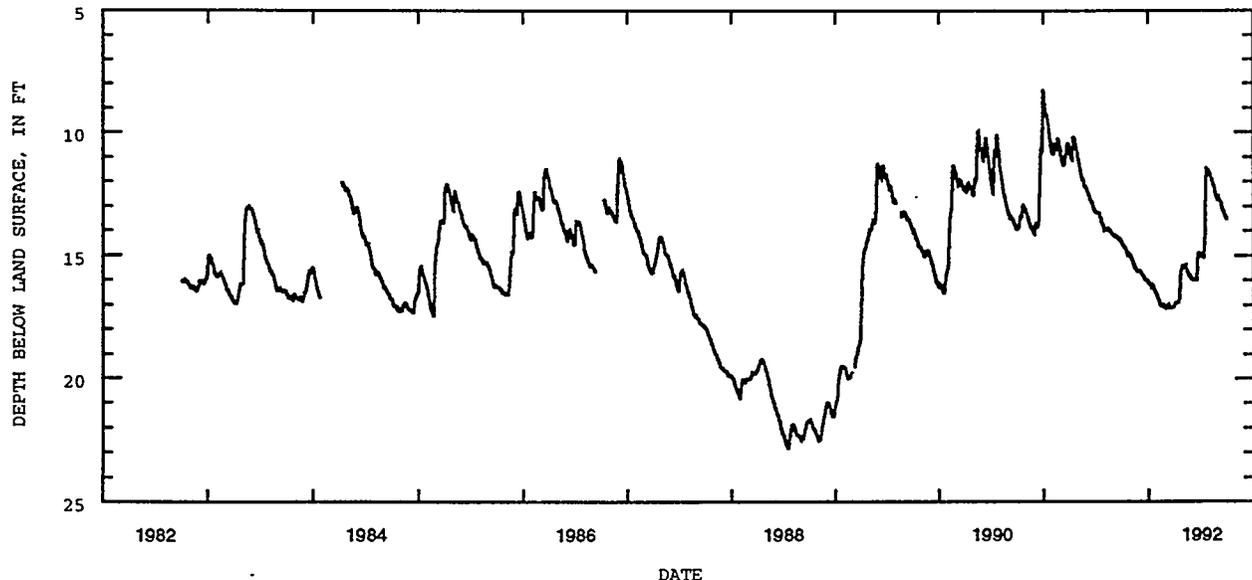
PERIOD OF RECORD.--September 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 30.17 ft below land-surface datum, Feb. 18, 19, 1961; minimum daily low, 8.24 ft below land-surface datum, Jan. 2, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.44	15.02	15.63	16.09	16.64	17.09	17.04	15.46	15.95	14.96	11.59	12.61
2	14.45	15.07	15.62	16.10	16.64	17.11	17.01	15.43	15.95	15.01	11.57	12.64
3	14.49	15.07	15.61	16.11	16.66	17.11	17.00	15.41	15.97	15.03	11.63	12.69
4	14.51	15.09	15.63	16.12	16.69	17.12	16.97	15.40	15.98	15.03	11.73	12.73
5	14.55	15.12	15.64	16.14	16.71	17.14	16.97	15.39	16.00	15.02	11.79	12.75
6	14.56	15.15	15.67	16.15	16.73	17.15	16.96	15.39	16.01	15.00	11.86	12.77
7	14.58	15.18	15.69	16.17	16.76	17.15	16.94	15.39	16.01	15.00	11.93	12.78
8	14.59	15.22	15.69	16.18	16.79	17.12	16.92	15.39	16.01	15.02	11.93	12.82
9	14.62	15.25	15.72	16.20	16.83	17.09	16.92	15.41	15.96	15.04	11.93	12.83
10	14.62	15.25	15.74	16.22	16.86	17.05	16.91	15.42	15.97	15.09	11.92	12.89
11	14.64	15.29	15.77	16.23	16.90	17.03	16.90	15.41	15.99	15.10	11.96	12.94
12	14.66	15.32	15.77	16.25	16.92	17.00	16.91	15.44	15.99	15.10	12.00	12.96
13	14.67	15.34	15.77	16.27	16.95	17.01	16.91	15.50	15.99	15.06	12.03	12.97
14	14.67	15.37	15.81	16.26	16.99	17.03	16.90	15.56	15.99	14.91	12.09	13.02
15	14.69	15.41	15.81	16.25	17.00	17.05	16.92	15.59	15.99	14.63	12.12	13.08
16	14.72	15.45	15.81	16.23	17.03	17.07	16.92	15.63	15.99	14.41	12.16	13.11
17	14.74	15.46	15.85	16.22	17.03	17.13	16.92	15.67	16.00	14.16	12.19	13.15
18	14.79	15.49	15.90	16.24	17.03	17.14	16.84	15.70	16.00	13.21	12.22	13.17
19	14.85	15.53	15.93	16.27	17.04	17.14	16.72	15.72	15.86	12.37	12.29	13.20
20	14.87	15.54	15.96	16.29	17.04	17.14	16.50	15.74	15.56	11.92	12.36	13.21
21	14.89	15.56	15.97	16.32	17.06	17.13	16.23	15.76	15.34	11.69	12.41	13.23
22	14.92	15.57	15.97	16.35	17.06	17.13	16.04	15.79	15.17	11.57	12.45	13.27
23	14.96	15.58	15.98	16.38	17.06	17.12	15.91	15.81	15.04	11.50	12.49	13.32
24	14.98	15.58	15.98	16.42	17.06	17.10	15.77	15.83	14.96	11.51	12.56	13.34
25	15.00	15.59	16.00	16.44	17.06	17.10	15.70	15.83	14.91	11.52	12.60	13.37
26	15.00	15.63	16.00	16.48	17.06	17.10	15.62	15.82	14.90	11.51	12.68	13.39
27	14.97	15.65	16.01	16.49	17.04	17.11	15.57	15.84	14.90	11.51	12.68	13.43
28	14.99	15.66	16.01	16.52	17.07	17.12	15.53	15.89	14.90	11.55	12.59	13.45
29	15.00	15.66	16.01	16.55	17.09	17.12	15.49	15.93	14.91	11.62	12.57	13.48
30	15.00	15.63	16.04	16.57	---	17.09	15.47	15.95	14.93	11.62	12.56	13.53
31	14.99	---	16.06	16.61	---	17.07	---	15.95	---	11.61	12.58	---
MAX	15.00	15.66	16.06	16.61	17.09	17.15	17.04	15.95	16.01	15.10	12.68	13.53

CAL YR 1991 LOW 16.06  
WTR YR 1992 LOW 17.15



COSHOCTON COUNTY

401256081525100. Local number, CS-3.

LOCATION.--Lat 40°12'56", long 81°52'51", Hydrologic Unit 05040004, 1.5 mi north of Conesville.

Owner: Universal Cyclops Corp.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 110 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 745 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 2.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

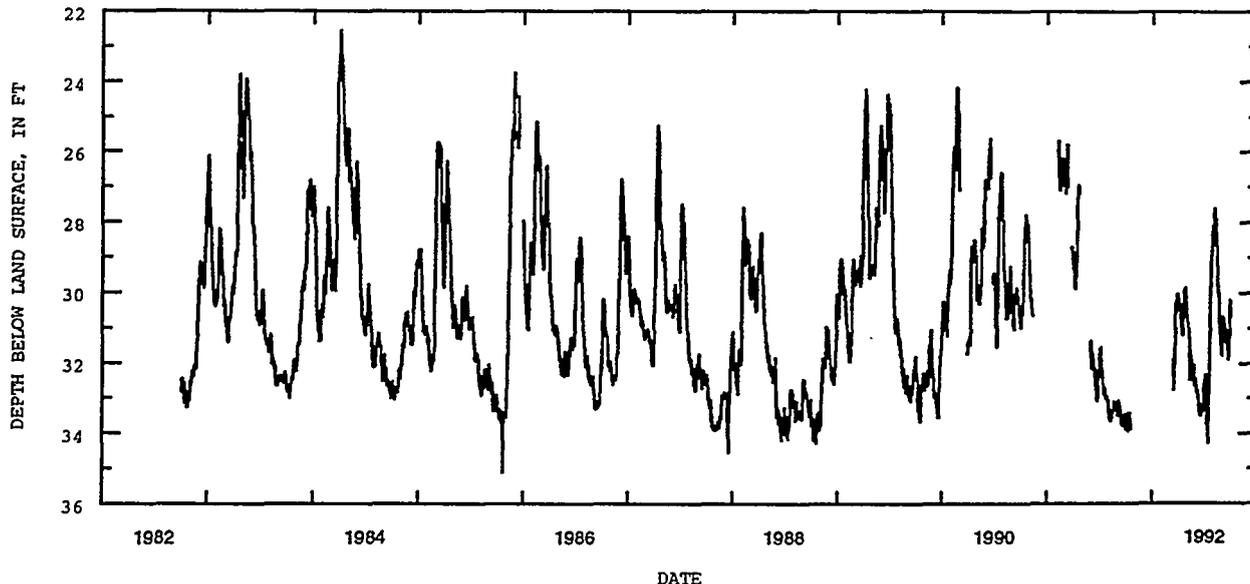
PERIOD OF RECORD.--April 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 36.98 ft below land-surface datum, Oct. 16, 1973;  
minimum daily low, 21.40 ft below land-surface datum, July 10, 1969.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.59	---	---	---	---	---	30.17	30.66	32.56	32.91	28.17	30.64
2	33.73	---	---	---	---	---	30.22	30.66	32.62	32.53	27.96	30.76
3	33.80	---	---	---	---	---	30.26	30.62	32.67	32.52	27.82	30.78
4	33.87	---	---	---	---	---	30.19	30.76	32.77	32.41	27.59	30.89
5	33.89	---	---	---	---	---	30.27	30.92	32.82	32.34	27.77	30.89
6	33.77	---	---	---	---	---	30.36	31.03	32.79	32.31	27.95	30.78
7	33.85	---	---	---	---	---	30.47	31.17	32.75	32.70	28.21	30.72
8	33.85	---	---	---	---	---	30.58	31.26	32.84	33.01	28.43	31.00
9	33.88	---	---	---	---	---	30.67	31.31	32.90	33.74	28.63	31.19
10	33.90	---	---	---	---	---	30.78	31.39	32.97	33.38	28.75	31.35
11	33.78	---	---	---	---	---	30.85	32.48	33.04	33.30	28.88	31.43
12	33.67	---	---	---	---	---	30.80	31.62	33.10	33.28	29.09	31.40
13	33.52	---	---	---	---	---	31.00	31.74	33.19	33.26	29.37	31.09
14	33.44	---	---	---	---	---	31.13	31.84	33.20	34.28	29.69	31.05
15	33.47	---	---	---	---	---	31.19	31.89	33.31	33.03	29.91	31.27
16	33.47	---	---	---	---	31.90	31.21	31.91	33.48	32.67	29.98	31.41
17	33.45	---	---	---	---	32.75	31.13	31.96	33.45	32.88	29.93	31.56
18	33.58	---	---	---	---	31.99	30.88	32.13	33.51	31.53	30.00	31.66
19	33.63	---	---	---	---	32.00	30.63	32.18	33.51	30.65	30.15	31.67
20	33.64	---	---	---	---	31.70	30.34	32.23	33.41	29.93	30.31	31.56
21	33.77	---	---	---	---	31.27	30.16	32.29	33.34	29.72	30.50	31.87
22	33.82	---	---	---	---	30.76	30.01	32.33	33.31	29.48	31.18	31.78
23	33.86	---	---	---	---	30.52	29.95	32.50	33.35	29.18	31.06	31.75
24	---	---	---	---	---	30.46	29.95	32.17	33.37	29.05	31.25	31.47
25	---	---	---	---	---	30.33	29.89	32.03	33.37	28.99	31.40	31.05
26	---	---	---	---	---	30.31	29.85	32.34	33.28	28.65	31.57	30.51
27	---	---	---	---	---	30.27	30.04	32.47	33.09	28.36	31.73	30.18
28	---	---	---	---	---	30.24	30.19	32.59	32.79	28.19	31.74	30.37
29	---	---	---	---	---	30.09	30.35	32.64	32.61	28.06	31.57	30.53
30	---	---	---	---	---	30.02	30.52	32.54	32.56	28.19	31.19	30.67
31	---	---	---	---	---	30.09	---	32.42	---	28.23	30.78	---
MAX	33.90	---	---	---	---	32.75	31.21	32.64	33.51	34.28	31.74	31.87

CAL YR 1991 LOW 33.90  
WTR YR 1992 LOW 34.28



COSHOCTON COUNTY--Continued

401735081523800. Local number, CS-2.

LOCATION.--Lat 40°17'35", long 81°52'38", Hydrologic Unit 05040003, 1.7 mi northwest of courthouse in Coshocton.

Owner: City of Coshocton.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test well, diameter 6 in., depth 40 ft, cased.

INSTRUMENTATION.--digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 740 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 8.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

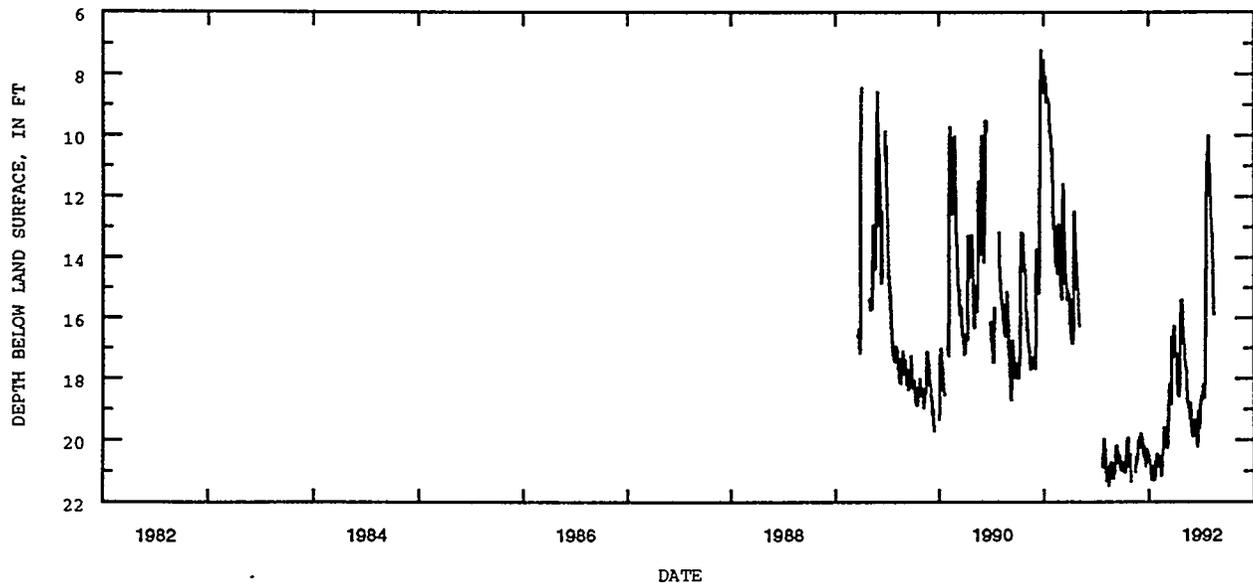
PERIOD OF RECORD.--May 1949 to September 1982. Reactivated March 24, 1989.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.47 ft below land-surface datum, Aug. 15, 1991;  
minimum daily low, 0.43 ft, Feb. 21, 1951.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.98	---	20.10	20.60	20.53	19.95	16.68	16.70	19.68	18.59	11.52	---
2	20.96	---	20.10	20.59	20.54	19.57	16.92	16.70	19.68	18.66	11.23	---
3	20.91	---	20.24	20.72	20.46	19.72	17.14	16.67	19.89	18.67	11.78	---
4	21.01	---	20.09	20.75	20.55	19.95	17.29	16.72	19.90	18.64	12.23	---
5	21.03	---	19.76	20.67	20.78	20.13	17.29	17.04	19.42	18.60	12.60	---
6	20.92	---	19.96	20.64	20.86	20.25	17.14	17.34	19.48	18.57	12.85	---
7	20.69	---	20.03	20.97	20.86	20.27	17.49	17.51	19.58	18.60	12.92	---
8	20.75	---	19.89	20.98	20.80	20.05	17.74	17.55	19.51	18.26	13.45	---
9	21.00	---	19.96	20.93	20.78	19.54	18.00	17.63	19.35	18.25	13.78	---
10	21.05	---	20.22	21.21	20.63	19.21	18.35	17.64	19.31	18.28	14.24	---
11	21.01	---	20.33	21.29	20.76	19.00	18.51	17.66	19.43	18.46	14.65	---
12	20.97	---	20.40	21.16	20.87	18.70	18.45	18.03	19.54	18.62	15.08	---
13	20.64	20.84	20.44	20.90	21.03	18.68	18.15	18.28	19.63	18.64	15.53	---
14	20.52	20.97	20.44	21.09	21.14	18.50	18.48	18.48	19.64	18.53	15.78	---
15	20.51	21.04	20.22	21.26	21.15	18.20	18.59	18.64	19.55	17.85	15.88	---
16	20.23	21.01	20.16	21.28	21.09	18.27	18.52	18.80	19.86	17.22	---	---
17	20.11	20.72	20.51	21.28	20.66	18.55	18.37	18.82	20.07	16.04	---	---
18	20.02	20.52	20.56	21.29	20.47	18.76	18.37	18.76	20.21	15.05	---	---
19	20.02	20.74	20.52	21.08	20.41	18.80	18.05	18.87	20.22	13.75	---	---
20	19.97	20.74	20.76	20.68	20.36	18.42	16.68	18.86	19.95	12.15	---	---
21	19.91	20.57	20.84	21.03	20.26	17.77	16.30	18.90	19.35	11.61	---	---
22	20.48	20.61	20.77	21.27	20.13	17.30	16.17	19.04	19.05	11.05	---	---
23	20.50	20.62	20.46	21.27	19.89	16.68	16.07	19.15	19.38	10.86	---	---
24	20.57	20.33	20.51	21.12	19.58	16.71	15.66	19.23	19.58	11.09	---	---
25	20.85	20.00	20.42	20.92	19.64	16.79	15.46	19.21	19.63	10.93	---	---
26	20.85	20.25	20.26	20.90	19.82	16.65	15.41	18.77	19.55	10.17	---	---
27	20.56	20.25	20.44	20.73	19.94	16.72	15.54	19.24	19.41	10.20	---	---
28	20.44	19.90	20.47	20.52	20.01	16.74	15.72	19.45	18.92	9.99	---	---
29	20.86	19.91	20.49	20.48	20.04	16.57	16.07	19.61	18.80	10.58	---	---
30	21.17	20.10	20.39	20.48	---	16.28	16.55	19.71	18.83	11.25	---	---
31	21.32	---	20.58	20.50	---	16.46	---	19.75	---	11.51	---	---
MAX	21.32	21.04	20.84	21.29	21.15	20.27	18.59	19.75	20.22	18.67	15.88	---

CAL YR 1991 LOW 21.47  
WTR YR 1992 LOW 21.32



DARKE COUNTY

400514084345700. Local number, D-2.

LOCATION.--Lat 40°05'14", long 84°34'57", Hydrologic Unit 05080001, State Route 571, 3 mi east of Greenville.

Owner: Greenville Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 70 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1038 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

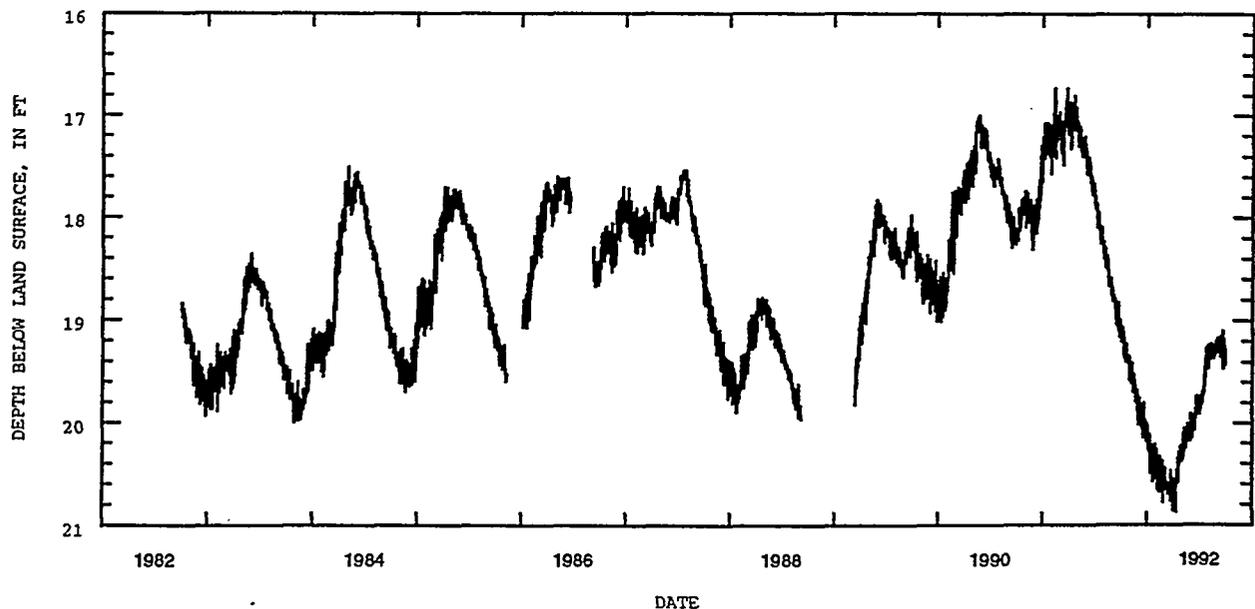
PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.87 ft below land-surface datum, Apr. 12, 1992; minimum daily low, 16.72 ft below land-surface datum, Feb. 13, Mar. 27, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.99	19.37	19.87	20.07	20.52	20.54	20.56	20.26	20.14	19.78	19.46	19.27
2	18.98	19.58	19.72	20.00	20.40	20.52	20.58	20.23	20.04	19.80	19.31	19.17
3	19.07	19.55	19.78	20.04	20.31	20.56	20.55	20.28	20.01	19.87	19.23	19.26
4	19.06	19.52	20.02	20.17	20.40	20.55	20.77	20.26	19.90	19.91	19.39	19.30
5	19.20	19.44	19.93	20.16	20.41	20.50	20.86	20.29	20.01	19.73	19.39	19.23
6	19.20	19.49	19.90	20.18	20.25	20.43	20.69	20.37	20.08	19.84	19.36	19.20
7	19.20	19.56	19.75	20.27	20.36	20.51	20.54	20.33	20.11	19.87	19.26	19.17
8	19.15	19.61	19.75	20.22	20.56	20.61	20.64	20.09	20.15	19.76	19.24	19.17
9	19.13	19.54	19.86	20.19	20.65	20.54	20.57	20.23	20.03	19.80	19.32	19.17
10	19.12	19.40	19.90	20.25	20.50	20.60	20.58	20.31	20.04	19.75	19.22	19.25
11	19.06	19.54	19.86	20.23	20.53	20.63	20.70	20.21	20.05	19.82	19.29	19.35
12	19.30	19.53	19.83	20.19	20.53	20.59	20.87	20.04	20.00	19.74	19.37	19.30
13	19.33	19.51	19.85	20.10	20.36	20.61	20.78	20.17	19.93	19.80	19.30	19.17
14	19.16	19.55	20.04	20.49	20.44	20.58	20.56	20.22	19.95	19.71	19.34	19.19
15	19.29	19.56	20.01	20.47	20.40	20.70	20.52	20.18	20.05	19.72	19.28	19.24
16	19.36	19.70	19.97	20.42	20.68	20.66	20.45	20.25	20.07	19.73	19.30	19.19
17	19.29	19.68	19.96	20.41	20.56	20.61	20.60	20.15	19.93	19.68	19.32	19.14
18	19.29	19.52	20.14	20.44	20.32	20.61	20.49	20.20	19.91	19.68	19.24	19.17
19	19.40	19.63	20.13	20.36	20.54	20.63	20.43	20.18	19.89	19.61	19.28	19.27
20	19.32	19.62	19.91	20.30	20.63	20.63	20.33	20.18	19.91	19.53	19.32	19.18
21	19.22	19.64	19.90	20.25	20.63	20.65	20.41	20.17	19.95	19.57	19.37	19.09
22	19.33	19.64	19.80	20.24	20.43	20.60	20.58	20.11	19.91	19.50	19.31	19.40
23	19.33	19.63	19.95	20.21	20.41	20.67	20.54	20.00	19.79	19.43	19.32	19.47
24	19.32	19.75	20.05	20.57	20.47	20.70	20.28	20.08	19.73	19.46	19.30	19.33
25	19.34	19.78	20.07	20.53	20.44	20.56	20.31	20.08	19.84	19.45	19.34	19.22
26	19.35	19.79	20.00	20.54	20.36	20.46	20.36	20.05	19.87	19.26	19.28	19.18
27	19.39	19.69	20.11	20.36	20.46	20.75	20.36	20.14	19.91	19.38	19.20	19.30
28	19.41	19.70	19.96	20.39	20.57	20.74	20.38	20.17	19.85	19.43	19.27	19.36
29	19.41	19.67	20.05	20.30	20.78	20.55	20.22	20.11	19.82	19.33	19.32	19.43
30	19.39	19.88	20.18	20.20	---	20.53	20.26	20.07	19.79	19.32	19.20	19.29
31	19.34	---	20.16	20.39	---	20.57	---	20.18	---	19.46	19.28	---
MAX	19.41	19.88	20.18	20.57	20.78	20.75	20.87	20.37	20.15	19.91	19.46	19.47

CAL YR 1991 LOW 20.18  
WTR YR 1992 LOW 20.87



## DELAWARE COUNTY

402126083040400. Local number, DL-3.

LOCATION.--Lat 40°21'26", long 83°04'04", Hydrologic Unit 05060001, east bank of Olentangy River at toe of Delaware dam.

Owner: U.S. Army Corps of Engineers.

AQUIFER.--Limestone of Devonian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 135 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 2.60 ft above land-surface datum.

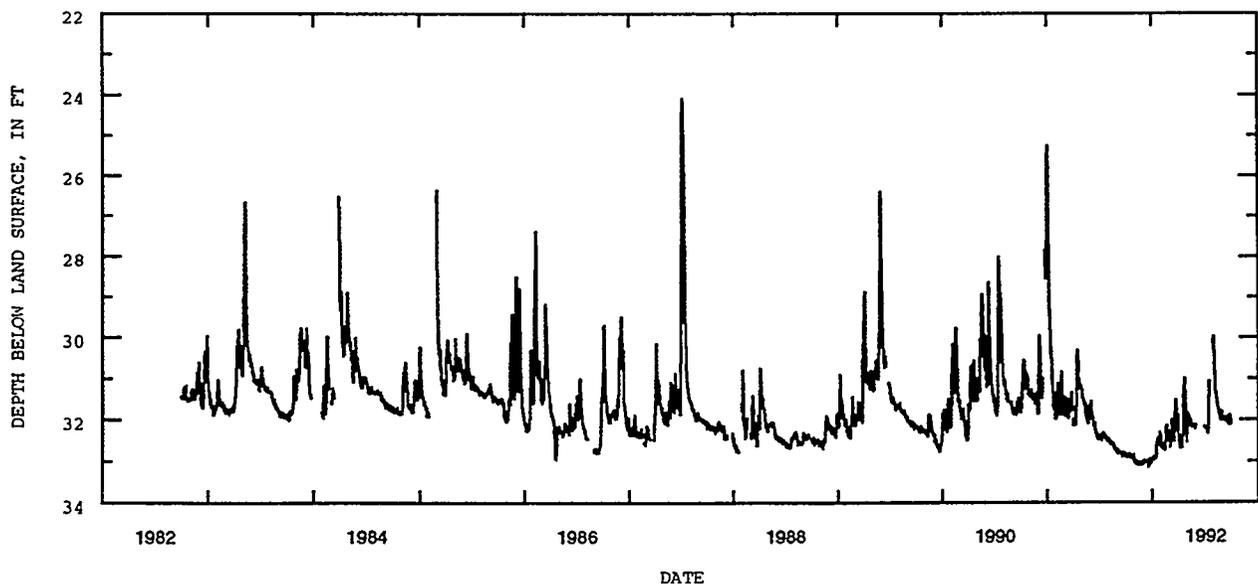
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.04 ft below land-surface datum, Nov. 1, 1948, Dec. 2, 3, 1948; minimum daily low, 20.43 ft below land-surface datum, Jan. 27, 1959.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.87	32.97	33.05	32.98	32.62	32.50	32.30	32.16	---	32.17	30.14	31.93
2	32.85	33.01	33.04	32.95	32.61	32.60	32.39	32.00	---	32.20	30.50	31.93
3	32.86	33.04	32.96	32.90	32.60	32.61	32.40	31.90	---	32.18	30.65	31.98
4	32.86	33.03	33.03	32.95	32.63	32.63	32.51	31.80	---	32.21	30.99	32.00
5	32.88	33.02	33.02	32.96	32.63	32.62	32.56	31.92	---	32.20	31.12	31.99
6	32.89	33.03	33.03	32.96	32.60	32.59	32.57	31.97	---	32.20	31.27	32.00
7	32.89	33.07	33.02	32.94	32.58	32.50	32.57	31.97	---	32.21	31.34	31.99
8	32.88	33.07	33.00	32.94	32.68	32.49	32.66	31.90	---	32.21	31.36	31.98
9	32.87	33.06	33.03	32.91	32.71	32.44	32.66	31.98	---	32.25	31.35	31.97
10	32.85	33.04	33.03	32.92	32.70	32.03	32.67	32.02	---	32.29	31.45	32.01
11	32.80	33.07	33.03	32.94	32.69	32.00	32.60	32.02	---	32.32	31.51	32.04
12	32.85	33.07	33.03	32.95	32.70	32.14	32.65	31.97	---	32.30	31.59	32.03
13	32.85	33.05	32.98	32.91	32.65	32.17	32.65	32.05	---	32.15	31.60	31.96
14	32.84	33.05	33.02	32.88	32.66	32.30	32.58	32.10	---	31.62	31.67	31.97
15	32.84	33.05	33.03	32.88	32.65	32.40	32.43	32.09	---	31.27	31.72	32.00
16	32.86	33.08	33.03	32.68	32.66	32.43	32.40	32.15	---	31.08	31.75	32.00
17	32.86	33.08	33.01	32.56	32.65	32.50	32.30	32.13	---	31.07	31.73	32.02
18	32.88	33.02	33.08	32.56	32.32	32.53	32.09	32.17	---	31.07	31.74	32.02
19	32.90	33.03	33.15	32.55	32.25	32.40	31.59	32.17	---	---	31.80	32.05
20	32.90	33.02	33.12	32.52	32.14	32.00	31.20	32.16	---	---	31.85	32.05
21	32.87	33.03	32.98	32.48	32.20	31.86	31.17	32.15	---	---	31.87	31.98
22	32.88	33.05	32.96	32.47	32.20	31.76	31.21	32.16	---	---	31.88	31.93
23	32.88	33.04	32.93	32.47	32.19	31.68	30.97	32.12	---	---	31.94	31.92
24	32.88	33.04	32.98	32.55	32.21	31.52	31.04	32.14	---	---	31.99	31.88
25	32.88	33.07	33.03	32.55	32.34	31.93	31.56	32.14	---	---	32.00	31.91
26	32.88	33.07	33.03	32.56	32.36	31.95	31.62	32.13	---	---	31.99	31.92
27	32.87	33.05	33.05	32.54	32.42	32.13	31.67	32.15	---	---	31.98	31.94
28	32.88	33.04	33.02	32.37	32.47	32.17	31.70	32.18	---	---	31.78	31.98
29	32.89	33.03	32.95	32.38	32.52	---	32.49	32.19	---	30.07	31.82	32.13
30	32.95	33.06	33.00	32.40	---	31.90	32.54	32.12	32.16	30.15	---	32.03
31	32.97	---	33.00	32.56	---	31.90	---	---	---	29.97	---	---
MAX	32.97	33.08	33.15	32.98	32.71	32.63	32.67	32.19	32.16	32.32	32.00	32.13
CAL YR 1991	LOW	33.15										
WTR YR 1992	LOW	33.15										



## FAIRFIELD COUNTY

393450082403600. Local number, F-7.

LOCATION.--Lat 39°34'50", long 82°40'36", Hydrologic Unit 05030204, southeast of Amanda.

Owner: Pine Grove Springs Water Co. Inc.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 5 in., depth 120 ft, cased to 31 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 980 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 0.60 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

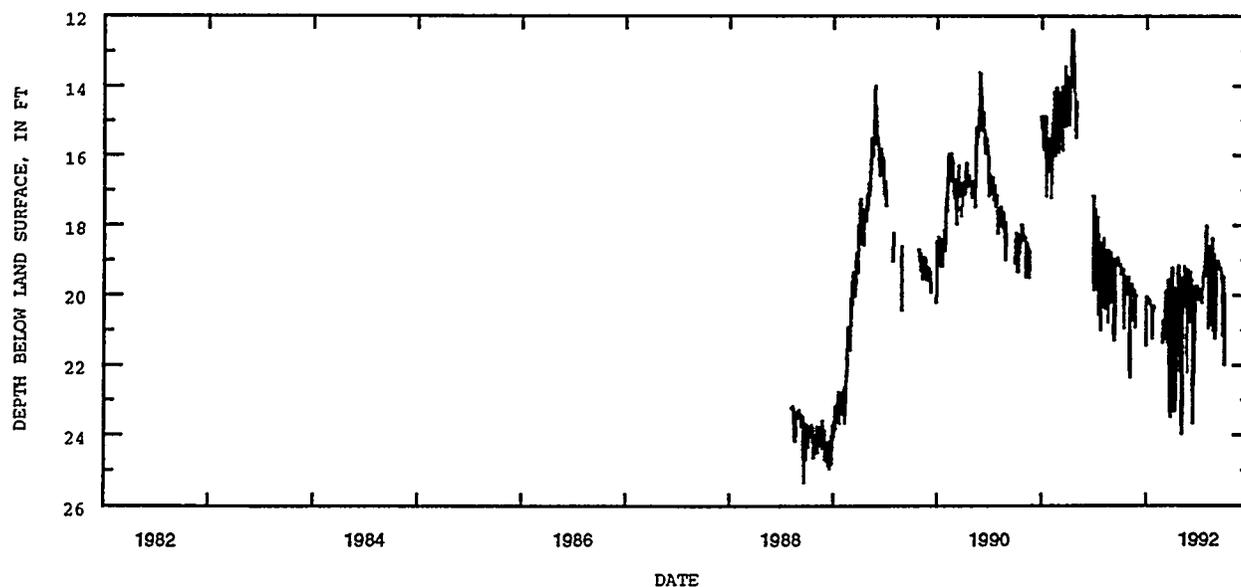
PERIOD OF RECORD.--August 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.36 ft below land-surface datum, Sept. 20, 1988;  
minimum daily low, 12.38 ft below land-surface datum, Apr. 17, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.13	19.52	---	20.73	---	20.76	19.22	21.35	20.30	20.16	19.53	20.48
2	19.11	19.59	---	20.28	---	21.30	19.20	23.24	19.42	19.93	19.65	19.58
3	19.13	19.62	---	20.13	---	21.14	19.22	23.00	19.40	19.81	19.00	19.09
4	19.14	19.67	---	20.06	---	21.00	19.36	23.70	19.34	19.85	20.46	19.03
5	19.42	22.00	---	20.06	---	20.71	19.42	22.50	20.78	19.82	20.95	19.03
6	19.33	22.35	---	20.11	---	21.00	21.50	23.97	20.53	19.88	18.98	19.03
7	19.29	21.05	---	20.15	---	20.83	23.00	22.85	19.65	19.91	19.99	19.05
8	19.28	20.48	---	20.15	---	20.68	23.34	20.87	19.55	19.92	20.86	19.15
9	19.30	20.00	---	20.09	---	20.38	20.40	19.80	20.30	20.10	19.00	19.18
10	19.33	19.90	---	20.14	---	20.00	22.23	19.51	22.75	20.00	18.63	19.22
11	19.29	19.75	---	20.15	---	19.97	20.67	19.40	22.75	20.20	18.55	19.23
12	19.25	19.75	---	20.24	---	19.90	20.15	19.29	23.56	20.20	18.64	19.27
13	19.32	19.74	---	20.20	---	19.87	23.30	19.17	23.66	20.08	18.63	19.24
14	19.32	19.77	---	20.15	---	20.60	23.30	19.25	21.50	19.90	18.65	19.20
15	19.26	19.78	---	20.16	---	21.38	22.72	19.29	20.77	19.82	18.62	19.23
16	19.74	19.83	---	20.24	---	20.65	22.72	19.33	22.24	19.78	18.43	19.25
17	20.95	19.84	---	20.26	---	20.10	20.65	19.36	20.35	19.75	18.35	19.55
18	20.90	19.84	---	20.38	---	20.01	19.95	19.36	21.31	19.48	20.50	19.31
19	19.65	19.85	---	20.38	---	19.68	19.57	19.39	21.10	19.37	20.85	19.62
20	19.57	19.84	---	20.32	---	19.55	19.32	19.40	19.87	19.35	21.03	19.58
21	19.55	19.88	---	20.81	---	19.63	19.24	21.20	19.73	19.35	20.05	19.40
22	19.46	19.88	---	21.25	---	21.75	19.23	22.22	19.72	19.18	18.95	19.40
23	19.48	20.93	---	21.07	---	22.20	19.25	20.00	20.03	19.21	18.80	21.17
24	19.48	20.85	---	20.65	---	22.95	19.15	19.39	20.04	19.19	18.85	20.30
25	19.49	20.05	---	20.38	---	23.15	19.17	19.26	20.05	19.08	20.50	19.59
26	20.00	20.05	---	20.32	---	23.48	19.27	19.46	20.10	18.92	21.25	19.51
27	19.49	20.05	---	20.31	---	23.26	19.25	19.47	19.74	18.38	19.85	19.50
28	20.01	19.99	---	20.31	---	20.55	20.10	19.40	19.74	18.00	19.01	19.96
29	19.65	20.00	---	20.37	21.36	19.97	21.83	20.46	20.00	18.24	21.02	19.96
30	19.63	---	---	---	---	19.91	22.56	20.79	20.08	19.33	19.85	21.98
31	19.54	---	21.42	---	---	19.48	---	19.95	---	19.45	20.28	---
MAX	20.95	22.35	21.42	21.25	21.36	23.48	23.34	23.97	23.66	20.20	21.25	21.98

CAL YR 1991 LOW 22.35

WTR YR 1992 LOW 23.97



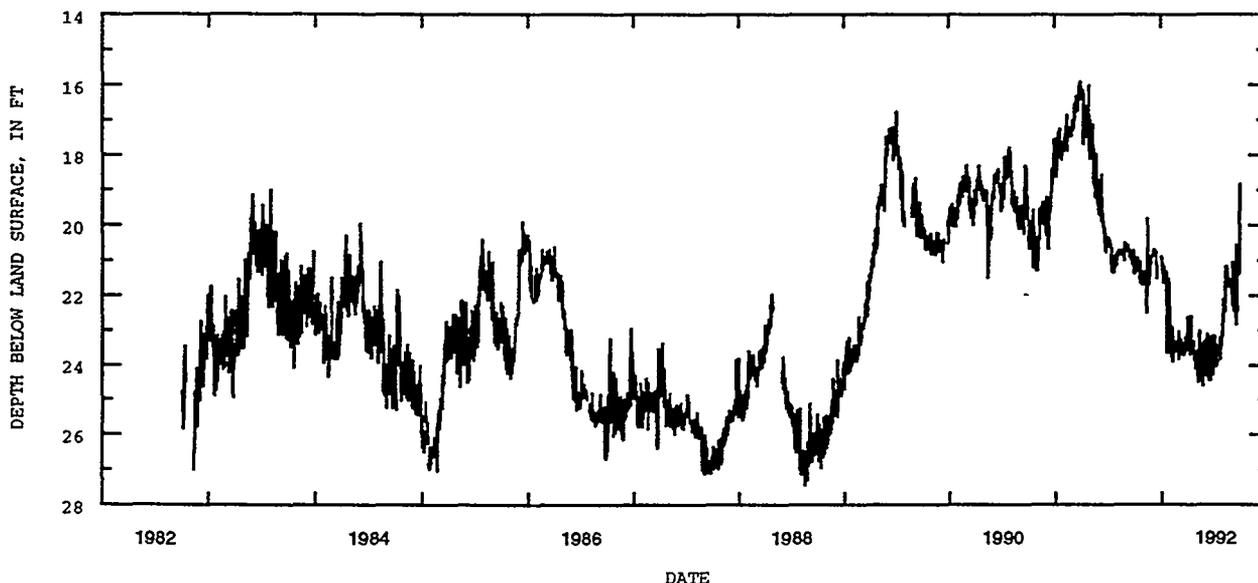
FAIRFIELD COUNTY--Continued

394257082362900. Local number, F-6.  
 LOCATION.--Lat 39°42'57", long 82°36'29", Hydrologic Unit 05030204, near Hocking River in well field at Lancaster.  
 Owner: Lancaster Water Department.  
 AQUIFER.--Sand and gravel of Pleistocene Age.  
 WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 108 ft, cased.  
 INSTRUMENTATION.--Type F continuous recorder.  
 DATUM.--Elevation of land-surface datum is 820 ft above National Geodetic Vertical Datum of 1929, from topographic map.  
 Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.  
 REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.  
 PERIOD OF RECORD.--June 1978 to current year.  
 EXREMES FOR PERIOD OF RECORD.--Maximum daily low, 27.45 ft below land-surface datum, Aug. 17, 1988;  
 minimum daily low, 15.90 ft below land-surface datum, Mar. 30, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.85	21.45	20.90	20.95	22.90	23.60	22.90	24.05	23.75	23.15	22.45	21.65
2	21.25	21.40	20.85	20.90	23.05	23.00	22.60	23.75	23.90	23.20	22.10	22.30
3	21.35	21.30	20.90	20.90	22.90	23.80	22.80	23.85	23.95	23.55	22.40	21.05
4	21.35	21.55	20.85	20.95	23.10	23.65	22.60	23.90	23.85	23.60	22.45	22.45
5	21.30	21.50	20.80	20.95	23.60	23.25	22.60	23.80	24.15	23.75	22.45	21.25
6	21.30	21.55	20.80	21.30	23.75	23.50	22.90	24.10	23.35	23.40	22.45	21.40
7	21.20	21.65	20.70	21.10	22.95	23.60	22.90	24.50	23.10	23.90	22.15	21.25
8	21.20	21.55	20.70	21.10	22.90	23.25	23.70	23.90	24.35	23.40	22.20	22.25
9	21.25	21.50	20.70	21.65	23.10	23.60	22.95	23.80	23.45	24.05	21.90	21.45
10	21.10	21.45	20.75	21.20	23.25	23.60	22.70	23.10	24.05	23.90	21.35	22.60
11	21.25	21.40	20.75	21.20	23.90	23.65	22.60	23.00	24.45	23.70	21.70	21.55
12	21.10	21.45	20.75	21.15	23.60	23.60	22.60	23.30	24.00	23.50	21.15	21.55
13	20.90	21.45	20.85	21.25	23.60	23.60	23.50	23.35	23.25	23.90	21.65	21.35
14	21.00	22.50	20.80	21.55	23.65	23.60	23.35	23.50	23.90	23.85	21.70	21.40
15	21.25	21.50	20.85	21.40	23.40	23.45	23.60	23.50	24.25	23.60	21.45	22.85
16	21.20	21.50	20.80	21.40	23.40	23.45	23.40	23.40	24.40	23.45	21.25	20.55
17	21.25	19.80	20.75	21.65	23.40	23.60	23.50	23.40	24.25	23.45	21.50	21.50
18	21.30	21.10	21.50	21.45	23.60	23.70	23.55	23.40	24.35	23.45	21.55	22.45
19	21.15	21.55	---	21.35	23.60	23.70	23.60	23.95	24.45	23.20	21.50	21.80
20	21.05	21.60	---	21.30	23.60	23.55	23.50	24.35	24.00	23.70	21.70	21.05
21	21.05	21.20	---	23.15	23.40	23.65	23.60	24.45	23.80	23.60	21.70	21.00
22	21.00	21.70	---	23.65	23.30	23.50	23.70	24.50	23.15	23.85	21.75	21.05
23	21.50	21.70	---	21.60	23.35	23.20	23.30	24.60	24.10	23.20	---	21.35
24	21.55	21.30	---	21.75	23.60	23.45	23.85	24.30	24.05	23.50	---	21.20
25	21.65	21.25	---	21.50	23.50	23.50	23.70	24.00	23.75	23.30	---	21.40
26	21.40	21.00	---	21.65	23.40	23.50	23.65	24.30	24.30	23.15	---	21.05
27	21.35	21.05	---	21.50	23.35	23.20	23.60	24.20	24.25	23.05	---	21.35
28	21.55	21.10	---	21.70	23.35	23.50	24.05	23.30	23.90	23.15	---	20.35
29	21.65	20.90	---	21.60	23.75	23.60	24.10	24.30	24.05	23.00	---	18.85
30	21.65	20.90	---	23.10	---	23.30	23.60	23.85	24.05	22.55	---	18.85
31	21.70	---	20.95	22.80	---	23.30	---	23.90	---	22.50	21.55	---
MAX	21.70	22.50	21.50	23.65	23.90	23.80	24.10	24.60	24.45	24.05	22.45	22.85

CAL YR 1991 LOW 22.50  
 WTR YR 1992 LOW 24.60



## FAIRFIELD COUNTY--Continued

394544082271000. Local number, F-1.

LOCATION.--Lat 39°45'44", long 82°27'10", Hydrologic Unit 05030204, near the west edge of West Rushville.

Owner: State of Ohio.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 84 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 980 ft above National Geodetic Vertical Datum of 1929, from topographic map.

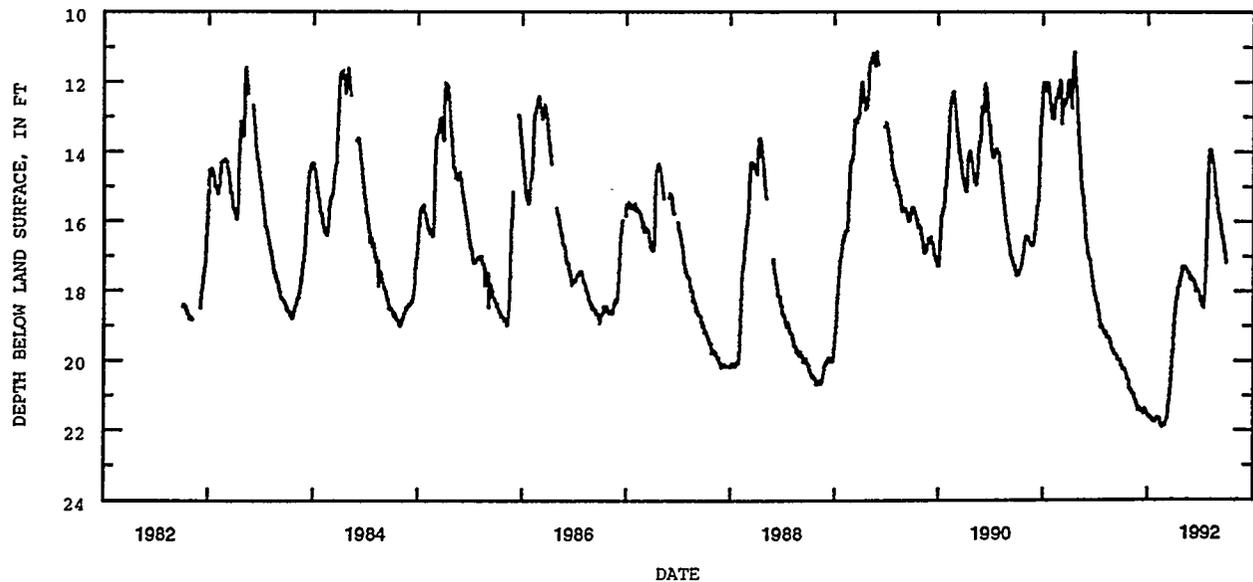
Measuring point: Floor of instrument shelter 8.02 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.88 ft below land-surface datum, Feb. 22-23, 1992;  
minimum daily low, 7.27 ft below land-surface datum, May 5-6, 1962.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.13	20.79	21.41	21.59	21.66	21.87	19.26	17.35	17.66	18.18	14.07	15.72
2	20.14	20.79	21.41	21.57	21.66	21.80	19.15	17.34	17.70	18.25	14.03	15.77
3	20.14	20.85	21.31	21.57	21.65	21.79	19.05	17.30	17.70	18.26	13.99	15.77
4	20.14	20.85	21.37	21.55	21.64	21.78	18.90	17.35	17.70	18.31	13.96	15.78
5	20.21	20.85	21.37	21.57	21.62	21.77	18.72	17.35	17.64	18.31	13.95	15.89
6	20.21	20.85	21.38	21.57	21.62	21.77	18.70	17.37	17.67	18.31	13.95	15.91
7	20.24	20.87	21.39	21.59	21.64	21.70	18.60	17.37	17.67	18.32	13.98	15.94
8	20.24	20.93	21.40	21.62	21.64	21.62	18.43	17.37	17.70	18.32	14.00	15.99
9	20.24	20.93	21.41	21.62	21.65	21.65	18.38	17.33	17.73	18.43	14.06	16.05
10	20.24	20.93	21.44	21.61	21.66	21.64	18.34	17.34	17.73	18.43	14.19	16.10
11	20.23	20.93	21.45	21.63	21.66	21.60	18.25	17.38	17.74	18.44	14.19	16.15
12	20.23	20.94	21.45	21.63	21.65	21.45	18.24	17.38	17.81	18.46	14.22	16.21
13	20.24	20.94	21.44	21.62	21.65	21.40	18.23	17.35	17.81	18.46	14.25	16.23
14	20.28	20.95	21.38	21.63	21.70	21.31	18.22	17.37	17.81	18.34	14.30	16.31
15	20.29	20.98	21.45	21.65	21.72	21.23	18.06	17.37	17.87	18.31	14.32	16.37
16	20.31	21.05	21.45	21.67	21.81	21.19	17.97	17.39	17.87	18.18	14.41	16.40
17	20.35	21.08	21.46	21.70	21.84	21.13	17.90	17.39	18.00	18.05	14.55	16.44
18	20.36	21.09	21.47	21.72	21.84	21.06	17.92	17.48	18.00	17.88	14.58	16.45
19	20.40	21.12	21.48	21.72	21.85	20.89	17.87	17.48	17.95	17.71	14.62	16.52
20	20.40	21.13	21.47	21.71	21.86	20.84	17.88	17.48	17.96	17.50	14.75	16.55
21	20.50	21.15	21.46	21.71	21.87	20.76	17.87	17.49	17.99	17.25	14.81	16.59
22	20.50	21.18	21.45	21.71	21.88	20.63	17.76	17.49	18.01	16.94	14.93	16.62
23	20.53	21.20	21.45	21.71	21.88	20.44	17.75	17.49	18.00	16.71	14.98	16.67
24	20.54	21.22	21.39	21.70	21.87	20.40	17.72	17.50	17.95	16.32	15.12	16.85
25	20.54	21.27	21.40	21.71	21.87	20.25	17.69	17.50	18.01	16.04	15.25	16.85
26	20.54	21.30	21.42	21.72	21.85	20.15	17.62	17.55	18.01	15.80	15.28	16.87
27	20.55	21.33	21.44	21.73	21.82	19.93	17.58	17.61	18.02	15.54	15.30	16.92
28	20.60	21.37	21.46	21.73	21.79	19.87	17.56	17.65	18.03	15.20	15.35	17.00
29	20.78	21.42	21.49	21.70	21.87	19.83	17.54	17.65	18.08	14.75	15.45	17.13
30	20.80	21.42	21.51	21.68	---	19.62	17.45	17.64	18.12	14.46	15.56	17.18
31	20.79	---	21.59	21.64	---	19.41	---	17.63	---	14.16	15.71	---
MAX	20.80	21.42	21.59	21.73	21.88	21.87	19.26	17.65	18.12	18.46	15.71	17.18
CAL YR 1991	LOW 21.59											
WTR YR 1992	LOW 21.88											



## FAIRFIELD COUNTY--Continued

395053082361900. Local number, F-5.

LOCATION.--Lat 39°50'53", long 82°36'19", Hydrologic Unit 05060001, Gaylord Paper Co., Baltimore.

Owner: Crown Zellerbach - Gaylord Paper Division.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 180 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 850 ft above National Geodetic Vertical Datum of 1929, from topographic map.

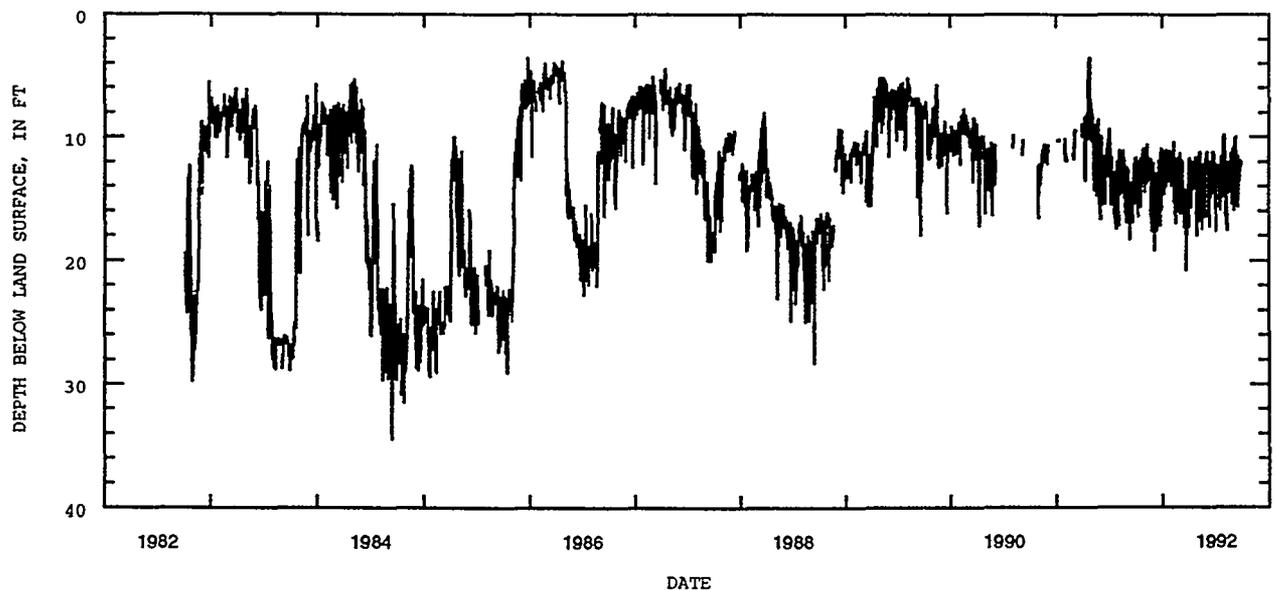
Measuring point: Floor of instrument shelter 3.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 34.50 ft below land-surface datum, Sept. 13, 1984;  
minimum daily low, 0.98 ft above land-surface datum, Nov. 7, 1979.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.30	11.90	12.95	12.70	13.20	11.50	17.30	14.20	12.50	13.75	10.05	12.75
2	11.70	12.00	14.15	12.10	11.85	12.15	15.55	13.50	11.30	14.15	14.70	13.35
3	12.55	11.70	16.00	11.05	14.00	15.25	12.45	12.75	11.55	13.80	14.75	14.60
4	12.35	14.50	12.05	11.80	11.70	11.30	11.75	12.70	11.40	17.65	11.10	10.70
5	11.65	11.85	17.00	11.75	11.15	16.20	11.70	12.30	11.20	13.90	14.05	15.95
6	12.40	11.55	19.20	12.75	11.70	12.45	12.80	13.90	11.90	12.75	15.95	10.35
7	12.40	11.75	14.70	11.45	11.25	15.55	11.80	13.90	11.80	13.35	16.50	10.15
8	14.15	12.35	14.30	11.80	11.45	14.90	12.50	11.80	12.45	12.20	15.55	10.10
9	12.95	11.85	16.65	14.65	11.20	12.55	14.90	11.80	12.30	12.45	16.70	10.10
10	16.50	11.50	15.85	11.85	11.05	11.85	14.30	11.15	16.10	13.10	17.55	13.35
11	13.20	10.55	13.75	13.70	10.35	12.15	14.50	11.40	17.25	14.00	13.05	15.00
12	15.00	13.80	12.95	11.35	11.40	11.95	13.50	11.50	13.50	13.40	13.75	11.05
13	15.30	11.65	12.90	11.20	12.90	14.30	15.70	16.85	12.50	12.45	12.20	11.20
14	15.05	11.55	15.35	11.65	15.15	13.65	15.70	16.30	12.35	12.50	11.95	12.55
15	12.05	12.00	17.65	11.00	15.10	13.95	13.10	13.90	12.80	13.25	13.95	12.60
16	13.55	11.75	14.20	14.05	13.40	15.20	12.95	17.45	13.10	13.60	13.95	11.75
17	13.40	11.80	15.55	13.30	17.00	17.05	12.25	16.60	14.95	13.95	14.50	11.50
18	12.20	11.80	14.10	11.80	13.30	17.30	12.05	13.85	13.15	15.60	14.00	11.60
19	11.75	11.95	16.95	11.30	12.20	15.95	11.95	13.00	12.80	15.95	13.65	15.70
20	12.00	12.50	12.70	12.15	11.80	16.90	12.45	13.45	12.90	14.25	12.90	13.90
21	12.30	13.50	12.05	11.55	11.70	15.90	12.45	12.70	11.30	11.60	13.10	12.60
22	15.70	12.40	12.10	13.25	11.65	15.70	12.10	12.55	11.20	13.95	12.75	11.85
23	13.85	12.10	12.05	11.15	12.20	15.95	12.25	12.20	11.55	15.30	13.70	11.95
24	13.40	11.75	15.85	11.30	16.00	19.10	12.20	12.50	11.25	11.95	14.90	11.95
25	12.55	15.60	17.20	11.65	12.20	20.80	12.15	12.10	11.25	12.50	11.25	13.50
26	12.05	17.40	15.35	11.05	15.35	15.10	12.40	12.75	11.30	14.35	13.00	12.20
27	11.45	17.65	13.45	11.35	11.95	14.50	11.60	16.55	11.45	12.65	15.45	11.85
28	11.35	14.50	11.65	13.60	11.85	14.30	16.80	13.25	11.80	10.40	12.20	12.20
29	11.15	13.70	10.95	11.90	12.00	14.30	17.95	12.20	12.20	10.00	12.90	12.40
30	10.90	13.65	11.20	11.85	---	13.90	17.95	11.80	14.90	10.30	11.65	12.05
31	12.50	---	15.95	12.00	---	14.95	---	---	---	9.80	10.85	---
MAX	16.50	17.65	19.20	14.65	17.00	20.80	17.95	17.45	17.25	17.65	17.55	15.95

CAL YR 1991 LOW 19.20  
WTR YR 1992 LOW 20.80

FAYETTE COUNTY

39315308322000. Local number, FA-1.

LOCATION.--Lat 39°31'53", long 83°32'20", Hydrologic Unit 05060003, Burnett-Perill Road about 6 mi west of Washington Court House.

Owner: Martha Slagle.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 5 in., depth 78 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1010 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

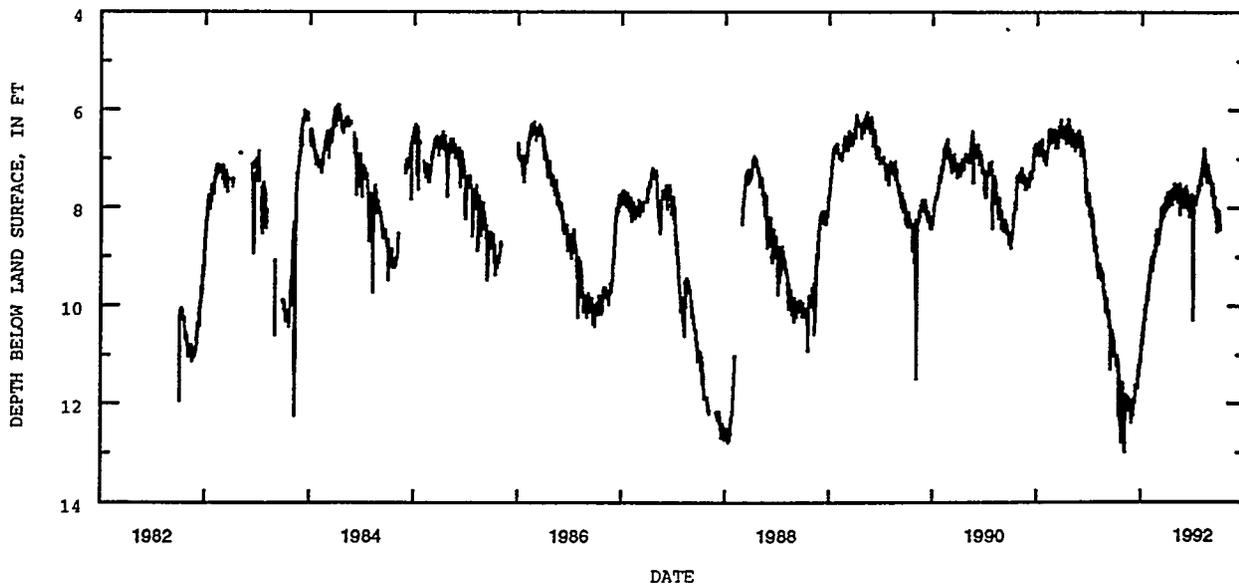
PERIOD OF RECORD.--February 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 13.45 ft below land-surface datum, Sep. 30 1982; minimum daily low, 3.26 ft below land-surface datum, Apr. 28, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.05	11.80	12.15	11.15	9.40	8.75	7.70	7.70	7.80	7.75	7.15	7.55
2	10.95	11.90	12.30	10.90	9.40	8.60	7.70	7.60	8.00	7.90	7.00	7.50
3	10.95	11.80	11.90	10.70	9.45	8.50	7.95	7.75	7.70	7.85	6.95	7.75
4	11.05	12.60	12.05	10.90	9.15	8.65	7.70	7.70	7.55	7.75	7.05	7.50
5	11.05	12.95	12.25	10.70	9.15	8.45	7.80	7.65	7.70	7.95	6.80	7.50
6	11.20	13.00	12.00	10.55	9.30	8.45	8.00	7.90	7.65	7.80	7.05	7.75
7	11.15	12.40	11.90	10.80	9.05	8.55	7.75	7.70	7.65	7.90	7.35	7.80
8	11.05	12.30	12.10	10.55	9.00	8.35	7.75	7.60	7.90	7.95	7.00	8.00
9	11.05	11.95	11.90	10.35	9.30	8.25	7.95	7.70	7.70	7.75	7.20	8.00
10	11.25	11.80	11.85	10.65	9.25	8.30	7.70	7.55	7.90	7.75	7.35	7.75
11	11.00	12.00	12.00	10.35	9.05	8.05	7.65	7.55	8.05	7.85	7.20	7.75
12	11.15	12.00	11.75	10.25	9.30	8.00	7.95	7.70	7.90	7.75	7.35	7.90
13	11.35	11.90	11.60	10.40	9.00	8.25	7.80	7.55	7.95	7.65	7.45	7.90
14	11.10	12.10	11.75	10.10	8.95	8.00	7.80	7.50	8.00	7.80	7.40	8.15
15	11.20	11.95	11.70	10.05	9.00	8.00	7.90	8.15	7.80	7.55	7.35	8.10
16	12.25	11.95	11.60	10.30	8.90	8.25	7.70	7.80	8.20	7.60	7.50	8.10
17	11.40	12.15	11.70	10.00	8.90	8.00	7.65	7.75	8.20	7.70	7.20	8.00
18	11.40	11.85	11.60	10.00	9.00	8.10	7.95	7.80	8.00	7.60	7.10	8.20
19	12.35	11.90	11.60	10.15	8.75	8.20	7.70	7.70	7.90	7.55	7.35	8.30
20	11.55	12.05	11.70	9.85	8.75	7.95	7.60	7.80	8.00	7.65	7.20	8.00
21	11.55	11.95	11.45	9.80	8.90	7.95	7.80	7.90	7.80	7.45	7.25	8.50
22	12.45	11.90	11.35	10.00	8.65	8.05	7.70	7.80	7.80	7.50	7.40	8.05
23	11.70	12.15	11.40	9.70	8.55	7.95	7.70	7.75	7.95	7.55	7.30	8.10
24	11.55	11.95	11.25	9.70	8.80	7.90	7.75	7.85	7.70	7.35	7.35	8.20
25	12.80	11.95	11.20	9.90	8.50	8.10	7.55	7.65	7.85	7.35	7.45	8.15
26	12.30	12.30	11.45	9.60	8.45	7.80	7.50	7.60	8.00	7.55	7.40	8.10
27	12.00	12.15	11.15	9.50	8.75	7.80	7.75	8.00	7.95	7.30	7.40	8.25
28	12.70	12.15	11.10	9.70	8.65	8.05	7.60	7.75	9.00	7.25	7.45	8.05
29	11.70	12.40	11.20	9.40	8.55	7.85	7.55	7.75	10.30	7.30	7.50	8.20
30	11.55	12.25	11.00	9.35	---	7.75	7.85	7.75	8.50	7.05	7.55	8.45
31	12.60	---	11.00	9.45	---	8.00	---	7.75	---	7.05	7.70	---
MAX	12.80	13.00	12.30	11.15	9.45	8.75	8.00	8.15	10.30	7.95	7.70	8.50

CAL YR 1991 LOW 13.00  
WTR YR 1992 LOW 13.00



FRANKLIN COUNTY

394956083002700. Local number, FR-18.

LOCATION.--Lat 39°49'56", long 83°00'27", Hydrologic Unit 05060001, south of State Rt. 665 at Shadeville.

Owner: City of Columbus.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 86.4 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 690 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

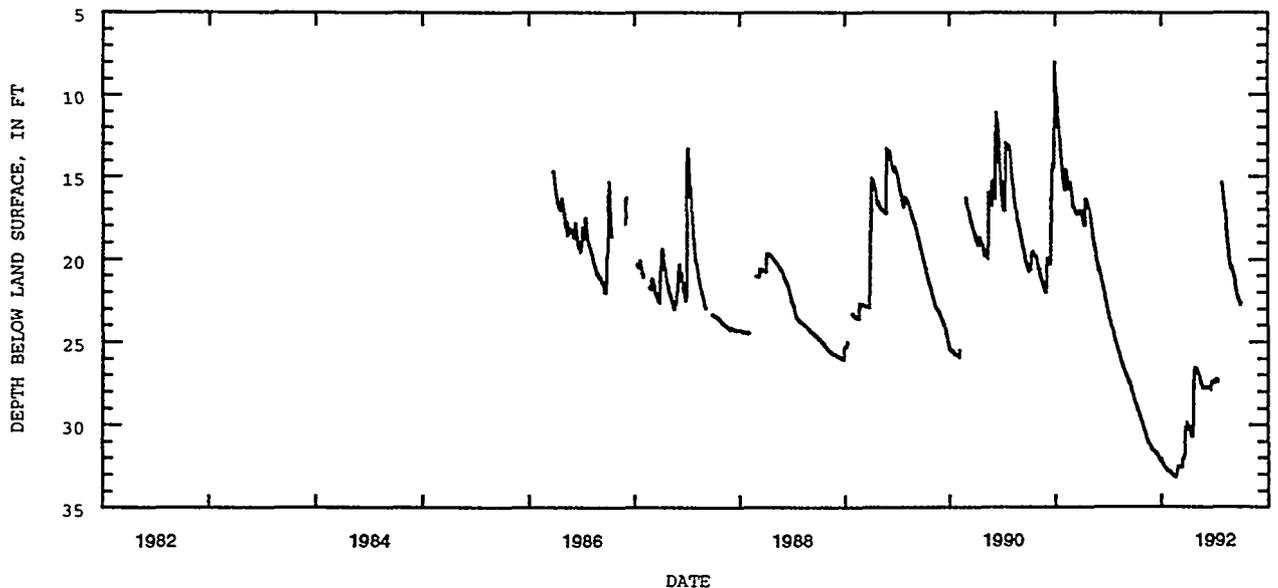
PERIOD OF RECORD.--November 22, 1985 to March 26, 1986 periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.15 ft below land-surface datum, Feb. 19-22, 1992; minimum daily low, 7.91 ft below land-surface datum, Jan. 1, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.41	30.07	31.48	32.14	32.85	32.48	29.95	26.63	27.75	27.39	16.00	20.57
2	28.46	30.12	31.51	32.18	32.85	32.49	29.97	26.65	27.75	27.40	16.14	20.61
3	28.51	30.17	31.51	32.21	32.86	32.50	30.00	26.65	27.76	27.41	16.24	20.67
4	28.57	30.23	31.52	32.25	32.87	32.50	30.03	26.70	27.76	27.42	16.35	20.73
5	28.62	30.27	31.54	32.29	32.90	32.51	30.08	26.75	27.76	27.44	16.51	20.80
6	28.68	30.33	31.55	32.32	32.92	32.53	30.12	26.80	27.72	27.44	16.74	20.88
7	28.73	30.39	31.57	32.36	32.94	32.54	30.18	26.85	27.70	27.25	17.00	20.97
8	28.79	30.44	31.60	32.40	32.95	32.55	30.23	26.91	27.70	27.26	17.25	21.05
9	28.85	30.50	31.62	32.43	32.97	32.55	30.29	26.96	27.70	27.28	17.40	21.13
10	28.90	30.55	31.65	32.48	33.00	32.55	30.35	27.01	27.69	27.30	17.63	21.21
11	28.96	30.60	31.68	32.51	33.02	32.56	30.41	27.06	27.69	27.31	17.86	21.31
12	29.01	30.66	31.71	32.55	33.04	32.55	30.48	27.13	27.70	27.33	18.10	21.41
13	29.05	30.71	31.75	32.58	33.06	32.27	30.53	27.18	27.71	27.34	18.34	21.52
14	29.10	30.77	31.74	32.60	33.07	32.10	30.58	27.20	27.73	27.31	18.56	21.63
15	29.13	30.83	31.68	32.60	33.10	32.05	30.65	27.27	27.74	---	18.75	21.75
16	29.18	30.88	31.72	32.61	33.11	32.02	30.70	27.35	27.76	---	18.95	21.85
17	29.22	30.93	31.75	32.63	33.12	32.00	30.70	27.44	27.79	---	19.13	21.95
18	29.28	30.99	31.79	32.64	33.14	32.00	30.69	27.50	27.80	---	19.30	22.05
19	29.33	31.04	31.83	32.69	33.15	32.00	30.68	27.53	27.70	---	19.45	22.12
20	29.39	31.09	31.86	32.71	33.15	31.93	30.55	27.60	27.67	---	19.60	22.22
21	29.44	31.11	31.90	32.72	33.15	31.65	29.53	27.67	27.67	---	19.75	22.30
22	29.50	31.11	31.94	32.74	33.15	31.20	28.55	27.74	27.63	---	19.89	22.33
23	29.55	31.15	31.96	32.75	33.05	30.85	27.55	27.79	27.42	---	20.01	22.32
24	29.61	31.20	31.98	32.76	32.90	30.68	27.04	27.80	27.38	---	20.14	22.36
25	29.67	31.25	32.01	32.77	32.78	30.50	26.67	27.65	27.38	---	20.26	22.41
26	29.72	31.30	32.06	32.79	32.68	30.25	26.55	27.69	27.38	---	20.38	22.46
27	29.77	31.34	32.10	32.80	32.66	30.14	26.56	27.73	27.38	---	20.49	22.52
28	29.83	31.37	32.14	32.82	32.55	30.12	26.57	27.76	27.38	15.37	20.56	22.58
29	29.88	31.45	32.17	32.83	32.48	30.10	26.58	27.79	27.39	15.43	20.40	22.64
30	29.98	31.47	32.14	32.85	---	30.10	26.60	27.78	27.40	15.60	20.44	22.73
31	30.02	---	32.10	32.85	---	29.93	---	27.75	---	15.81	20.52	---
MAX	30.02	31.47	32.17	32.85	33.15	32.56	30.70	27.80	27.80	27.44	20.56	22.73

CAL YR 1991 LOW 32.17  
WTR YR 1992 LOW 33.15



FRANKLIN COUNTY--Continued

395118082573300. Local number, FR-3.

LOCATION.--Lat 39°51'14", long 82°57'32", Hydrologic Unit 05060001, 0.7 mi southwest of Rees.

Owner: R. Hann.

AQUIFER.--Sand and gravel of Pleistocene Age.

CHARACTERISTICS.--Drilled test water table well, diameter 12 in., depth drilled 60 ft, present depth 53 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 712.94 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 3.43 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

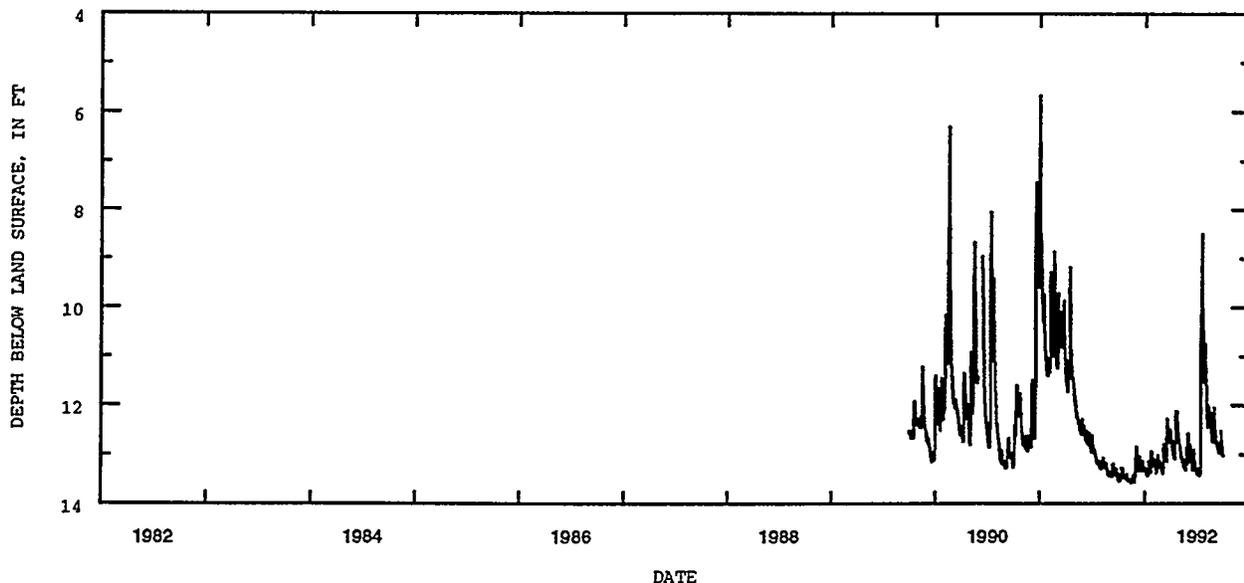
PERIOD OF RECORD.--April 1946 to September 1982 continuous, periodic October 1982 to September 1989, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.75 ft below land-surface datum, July 7, 1966; minimum daily low, 0.0 ft below land-surface datum, Jan. 22, 1959.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.48	13.43	13.35	13.29	13.12	13.32	12.47	12.77	12.68	13.38	11.48	12.47
2	13.49	13.48	13.31	13.30	13.13	13.34	12.57	12.81	12.78	13.39	11.70	12.53
3	13.50	13.50	13.28	13.31	13.15	13.35	12.63	12.86	12.86	13.29	11.90	12.58
4	13.51	13.50	12.83	13.32	13.17	13.37	12.73	12.90	12.91	13.28	12.06	12.61
5	13.53	13.51	12.95	13.34	13.19	13.38	12.80	12.95	12.92	13.30	12.22	12.66
6	13.53	13.52	13.07	13.35	13.19	13.38	12.83	13.00	12.85	13.30	12.33	12.72
7	13.49	13.53	13.12	13.38	13.20	13.30	12.87	13.03	12.77	13.35	12.41	12.76
8	13.51	13.54	13.18	13.40	13.25	12.95	12.91	13.05	12.85	13.38	12.45	12.77
9	13.52	13.54	13.22	13.40	13.29	12.78	12.93	13.05	12.91	13.40	12.33	12.75
10	13.52	13.53	13.26	13.41	13.31	12.82	12.92	13.03	12.98	13.40	12.00	12.79
11	13.45	13.55	13.30	13.43	13.33	12.81	12.95	13.07	13.05	13.41	12.09	12.80
12	13.26	13.55	13.31	13.43	13.35	12.77	13.00	13.10	13.12	13.41	12.19	12.83
13	13.28	13.54	13.34	13.43	13.34	12.87	13.03	13.13	13.16	13.37	12.30	12.86
14	13.31	13.51	13.33	13.42	13.32	12.94	13.05	13.15	13.20	11.10	12.41	12.89
15	13.35	13.51	13.02	13.15	13.21	13.01	13.07	13.17	13.25	10.12	12.44	12.91
16	13.25	13.54	13.11	13.12	13.15	13.08	13.09	13.20	13.28	10.48	12.13	12.93
17	13.31	13.55	13.17	13.20	13.00	13.10	13.09	13.24	13.30	10.51	12.19	12.95
18	13.36	13.54	13.26	13.27	13.02	13.12	12.46	13.25	13.32	8.48	12.29	12.95
19	13.40	13.55	13.31	13.30	13.06	13.07	12.25	13.23	13.08	9.65	12.39	12.97
20	13.44	13.55	13.33	13.34	13.10	12.25	12.12	13.24	12.88	10.38	12.47	12.83
21	13.45	13.47	13.35	13.36	13.11	12.37	12.15	13.27	13.02	10.41	12.53	12.90
22	13.47	13.41	13.34	13.37	13.13	12.47	12.10	13.29	13.10	10.50	12.59	12.90
23	13.47	13.43	13.30	13.34	13.17	12.57	12.25	13.31	13.14	10.88	12.64	12.50
24	13.47	13.49	13.15	13.12	13.20	12.66	12.40	13.32	13.16	11.21	12.69	12.64
25	13.47	13.53	13.11	12.92	13.22	12.71	12.50	12.85	13.17	11.46	12.72	12.74
26	13.47	13.55	13.17	12.99	13.25	12.72	12.58	12.97	13.21	11.54	12.74	12.81
27	13.46	13.55	13.24	13.05	13.27	12.58	12.62	13.06	13.25	11.10	12.75	12.87
28	13.46	13.55	13.25	13.10	13.28	12.66	12.65	13.14	13.29	10.73	12.73	12.93
29	13.48	13.40	13.27	13.12	13.32	12.71	12.70	13.18	13.33	11.15	12.02	12.98
30	13.45	13.38	13.28	13.13	---	12.73	12.75	13.18	13.36	11.17	12.21	13.01
31	13.40	---	13.27	13.13	---	12.55	---	12.55	---	11.27	12.37	---
MAX	13.53	13.55	13.35	13.43	13.35	13.38	13.09	13.32	13.36	13.41	12.75	13.01

CAL YR 1991 LOW 13.55  
WTR YR 1992 LOW 13.55



FRANKLIN COUNTY--Continued

400101083021800. Local number, FR-10.

LOCATION.--Lat 40°01'01", long 83°02'18", Hydrologic Unit 05060001, Kenny and Ackerman Roads, Columbus.

Owner: Ohio State University.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 4 in., depth 75 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 775 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

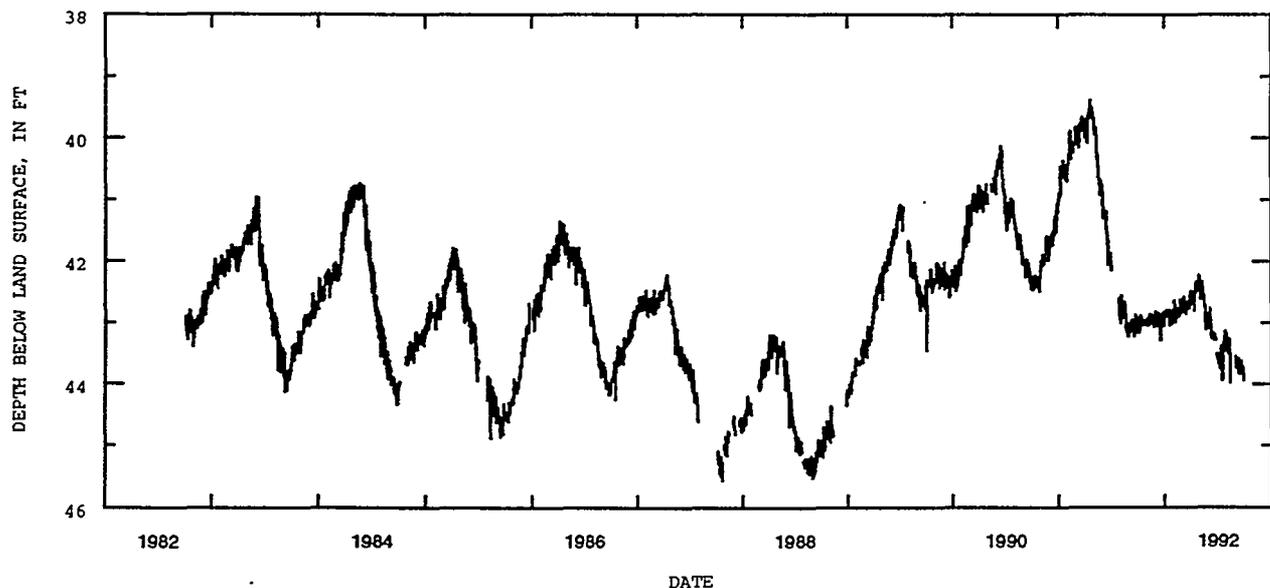
PERIOD OF RECORD.--March 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 48.20 ft below land-surface datum, Oct. 7, 1954;  
 minimum daily low, 37.76 ft below land-surface datum, Apr. 13, 1951.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.06	42.95	42.97	43.05	42.93	42.81	42.53	42.40	43.06	43.57	43.46	43.60
2	42.96	42.96	42.95	43.00	42.93	42.80	42.55	42.25	42.97	43.58	43.40	43.74
3	42.93	43.01	42.81	42.85	42.86	42.83	42.54	42.27	43.10	43.58	43.29	43.60
4	42.95	43.03	43.06	42.85	42.82	42.82	42.48	42.32	43.01	43.60	43.41	43.70
5	42.95	43.04	43.06	42.85	42.83	42.81	42.68	42.39	42.75	43.55	43.32	43.73
6	43.04	42.93	42.98	42.85	42.76	42.75	42.67	42.60	42.92	43.55	43.48	43.70
7	43.11	42.98	42.95	42.91	42.64	42.67	42.61	42.63	42.96	43.66	43.50	43.73
8	43.16	43.03	42.89	42.91	42.81	42.74	42.60	42.47	43.04	43.66	43.50	43.65
9	43.17	43.06	42.88	42.79	42.97	42.73	42.60	42.34	43.05	43.65	43.25	43.67
10	43.07	42.97	42.99	42.83	42.98	42.58	42.57	42.53	43.18	43.72	43.30	43.57
11	42.88	42.89	42.98	42.85	42.98	42.65	42.55	42.55	43.25	43.75	43.35	43.71
12	43.02	42.91	42.99	42.85	43.00	42.68	42.69	42.43	43.22	43.65	43.50	43.78
13	43.02	42.90	42.85	42.82	42.88	42.72	42.80	42.33	43.17	43.56	43.48	43.80
14	43.02	42.88	42.98	42.82	42.82	42.71	42.70	42.57	43.20	43.45	43.97	43.81
15	42.90	42.88	43.02	42.85	42.81	42.80	42.65	42.52	43.25	43.38	---	43.82
16	42.98	42.95	43.07	42.95	42.88	42.87	42.60	42.55	---	43.47	---	43.84
17	43.00	43.02	42.99	42.88	42.88	42.75	42.50	42.53	---	43.44	---	43.82
18	42.96	42.95	43.22	43.00	42.79	42.77	42.49	42.58	---	43.95	---	43.76
19	43.04	42.91	43.28	43.05	42.77	42.66	42.44	42.63	43.18	43.90	---	43.79
20	43.05	42.92	43.28	42.88	42.88	42.69	42.40	42.86	43.22	43.40	---	43.81
21	42.96	42.90	43.08	42.88	42.91	42.77	42.33	42.88	43.28	43.36	---	43.78
22	43.00	42.92	43.03	42.87	42.88	42.65	42.45	43.12	---	43.42	---	43.62
23	43.03	42.94	42.86	42.79	42.80	42.68	42.49	43.00	---	43.36	---	43.77
24	43.03	42.88	42.87	42.89	42.77	42.77	42.45	42.84	43.25	43.32	---	43.81
25	43.00	42.99	42.99	42.91	42.77	42.76	42.34	42.86	43.27	43.28	---	43.80
26	43.00	43.08	42.99	43.02	42.71	42.65	42.34	42.85	---	43.18	---	43.77
27	42.96	43.08	43.07	43.02	42.64	42.70	42.48	42.97	---	43.13	---	43.72
28	42.99	43.00	43.04	42.99	42.64	42.77	42.48	42.99	---	43.47	---	43.76
29	43.01	42.96	42.83	42.99	42.82	42.76	42.45	43.03	---	43.28	---	43.86
30	43.02	42.97	43.02	42.95	---	42.66	42.38	42.88	43.51	43.30	---	43.94
31	43.00	---	43.06	42.80	---	42.59	---	42.94	---	43.18	43.56	---
MAX	43.17	43.08	43.28	43.05	43.00	42.87	42.80	43.12	43.51	43.95	43.97	43.94

CAL YR 1991 LOW 43.28  
 WTR YR 1992 LOW 43.97



## GALLIA COUNTY

383638082103300. Local number, G-2.

LOCATION.--Lat 38°36'38", long 82°10'33", Hydrologic Unit 05090101, 5.9 mi east of Crown City.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water-table well, diameter 12 in., depth 65 ft, cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 552 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1975 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.94 ft below land-surface datum, Oct. 4, 1982;  
minimum daily low 16.43 ft below land-surface datum, Mar. 8, 1979.

**WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS**

<b>DATE</b>	<b>WATER LEVEL</b>	<b>DATE</b>	<b>WATER LEVEL</b>
Oct. 28, 1991	32.95	Apr. 7, 1992	27.78

GREENE COUNTY

394330083531400. Local number, GR-11.

LOCATION.--Lat 39°43'30", long 83°53'14", Hydrologic Unit 05090202, near Wilberforce.

Owner: Central State University.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 85 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 870 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

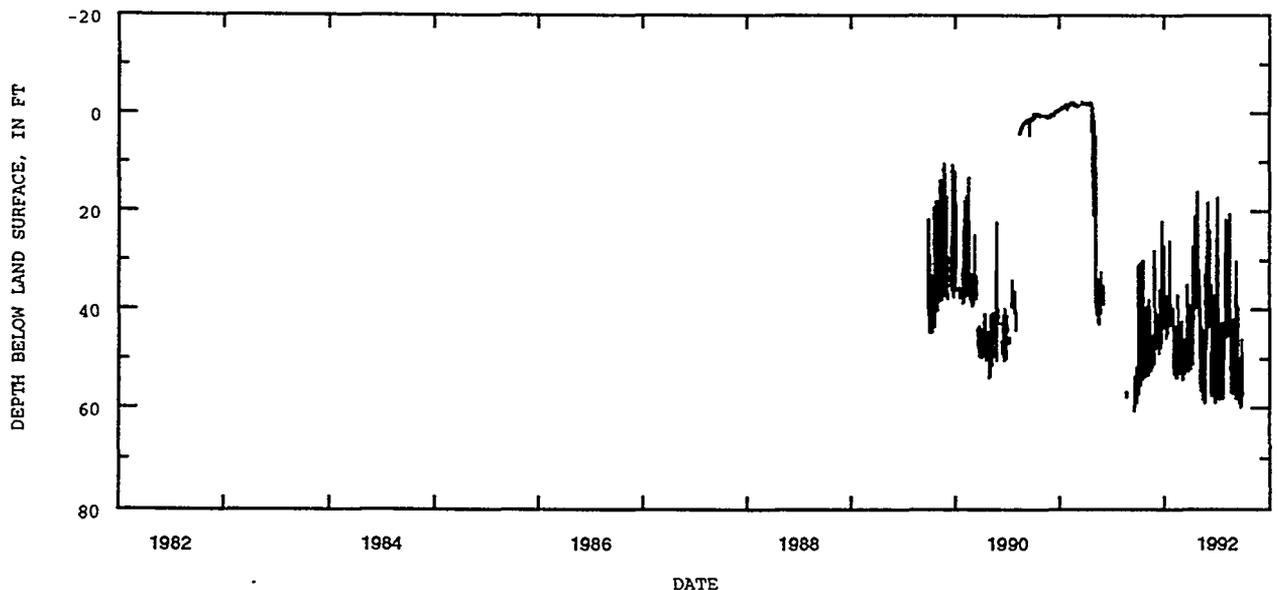
PERIOD OF RECORD.--March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.60 ft below land-surface datum, Sept. 20, 1991;  
minimum daily low, 2.10 ft above land-surface datum, Mar. 23, 27-29, and Apr. 15-22.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.70	51.50	38.60	27.00	43.20	47.00	50.30	41.00	18.20	53.60	34.60	50.40
2	56.00	52.50	42.40	39.80	39.70	42.40	50.50	41.30	35.80	44.60	21.70	54.70
3	56.80	39.40	45.60	42.40	40.80	48.50	52.00	32.00	41.00	30.00	35.00	56.70
4	57.00	47.40	46.60	43.50	47.90	51.60	52.10	38.60	43.50	21.60	37.10	57.90
5	57.20	50.00	47.20	40.70	50.90	53.20	40.10	47.20	---	17.20	42.10	58.10
6	31.00	51.80	47.30	42.60	52.70	54.00	46.90	52.40	35.20	42.00	44.90	43.40
7	48.20	53.00	47.80	45.20	53.20	54.40	50.20	54.60	23.80	51.00	45.70	30.20
8	53.10	53.20	43.00	45.90	52.20	49.60	51.00	56.00	39.00	52.80	35.20	46.90
9	54.40	53.40	43.40	44.30	48.50	47.10	51.20	56.60	---	54.50	23.30	49.30
10	55.00	47.90	45.30	44.60	48.50	49.20	46.70	43.60	49.00	57.10	33.80	48.40
11	55.40	38.00	46.50	44.80	51.20	50.50	37.30	44.60	53.60	58.40	39.90	48.00
12	55.20	40.80	47.40	39.70	52.20	51.60	27.00	51.40	56.40	46.60	40.70	52.60
13	30.40	45.30	48.50	40.60	53.30	52.60	37.30	53.40	57.60	46.70	40.30	39.00
14	43.00	50.00	49.00	41.30	53.80	53.20	39.20	55.80	46.20	48.40	41.40	47.80
15	49.60	51.70	36.00	37.00	53.80	49.00	40.20	57.60	35.00	47.60	31.60	53.00
16	52.20	52.60	40.40	38.60	49.60	45.80	37.40	58.40	42.90	45.50	20.40	56.40
17	53.10	46.90	44.20	39.80	37.00	49.00	39.90	48.40	45.90	49.40	37.70	57.20
18	53.70	49.50	46.40	40.20	43.40	51.10	31.50	49.00	---	53.30	47.10	58.70
19	54.20	50.90	47.00	38.00	49.10	47.00	21.00	53.60	46.00	42.60	50.00	59.10
20	30.00	50.30	47.40	26.00	50.90	49.90	32.80	57.00	50.50	50.10	54.60	53.60
21	45.50	51.60	47.80	37.60	51.80	47.70	32.80	57.30	37.00	54.60	56.70	55.40
22	50.00	49.00	45.60	41.10	51.60	35.30	24.40	58.80	48.60	57.00	56.80	58.20
23	51.10	47.90	43.00	42.40	47.90	35.00	28.30	59.00	52.00	58.20	42.60	59.30
24	52.00	45.00	30.40	43.40	47.40	45.70	31.00	44.60	54.60	57.90	48.80	59.40
25	53.00	47.80	22.00	41.90	49.00	47.80	23.40	32.60	57.40	57.60	50.70	59.60
26	53.80	48.60	35.00	39.10	52.20	50.60	16.00	42.50	58.60	43.00	53.90	59.50
27	47.70	50.80	37.40	40.60	53.10	52.70	29.00	45.80	59.00	44.80	54.60	46.00
28	47.70	51.10	38.60	42.50	53.00	52.70	29.80	47.00	45.80	44.30	56.60	51.80
29	51.00	28.00	38.80	43.20	52.50	39.00	34.00	44.00	50.60	45.10	56.70	55.70
30	52.50	35.10	38.10	43.30	---	46.30	37.80	34.00	52.00	45.90	42.30	57.40
31	53.40	---	38.20	43.50	---	49.30	---	24.00	---	45.80	42.40	---
MAX	57.20	53.40	49.00	45.90	53.80	54.40	52.10	59.00	59.00	58.40	56.80	59.60

CAL YR 1991 LOW 60.60  
WTR YR 1992 LOW 59.60



GREENE COUNTY--Continued

394411083561300. Local number, GR-1.

LOCATION.--Lat 39°44'11", long 83°56'13", Hydrologic Unit 05090202, along Massies Creek near U.S. 68 north of Xenia.

Owner: Xenia Water Department.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 30 in., depth 77 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 818.88 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 4.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1944 to current year.

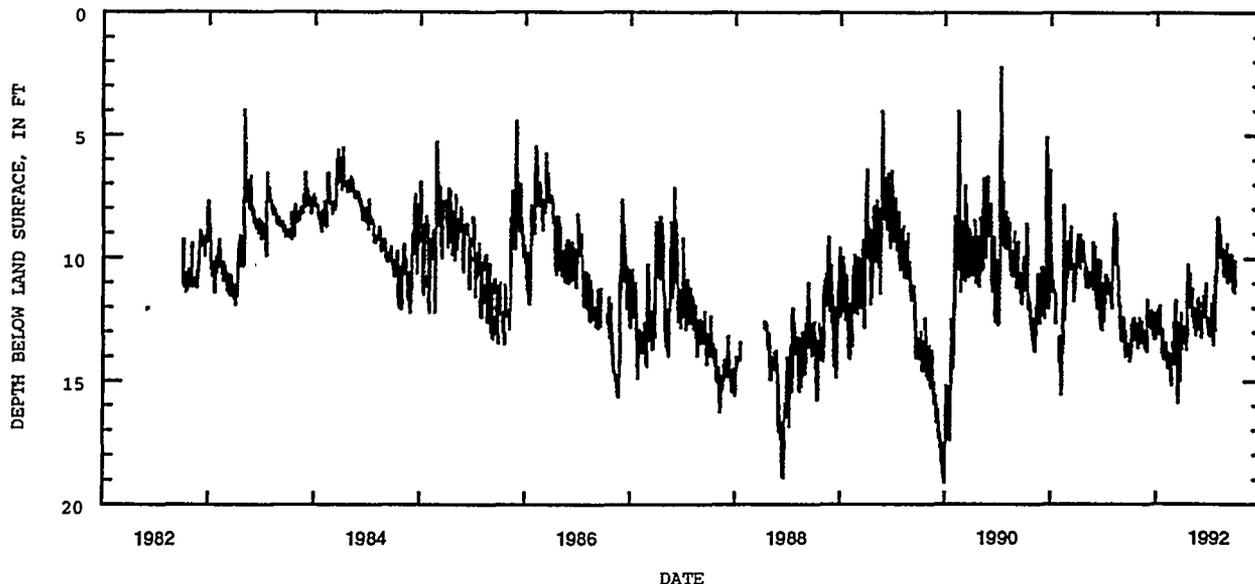
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.60 ft below land-surface datum, July 7, 1966;

minimum daily low, 0.70 ft above land-surface datum, above land surface Aug. 3, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.68	13.41	12.39	13.26	13.92	13.81	13.19	11.56	12.98	12.61	9.29	10.83
2	14.21	12.79	12.95	12.32	13.78	14.33	13.38	11.82	13.07	12.44	8.57	10.78
3	14.10	12.61	11.68	12.34	13.90	14.28	13.41	11.89	13.20	13.16	9.58	10.95
4	14.04	13.10	12.07	---	13.41	13.39	13.36	12.34	13.00	13.11	9.57	10.89
5	13.25	12.79	12.10	---	14.10	12.61	13.18	11.22	13.08	12.66	9.45	10.75
6	13.87	12.43	12.60	12.53	---	13.17	13.39	11.86	12.77	12.88	9.02	10.31
7	13.74	13.22	12.78	12.10	13.88	13.29	13.31	12.37	12.82	12.63	9.84	10.16
8	13.50	12.89	12.27	12.81	13.81	11.86	12.77	12.07	12.18	12.77	9.64	10.24
9	13.04	13.39	12.53	12.28	14.00	13.14	13.10	11.99	12.20	11.81	9.99	10.67
10	12.72	13.13	12.58	12.79	14.48	11.69	13.22	12.53	12.00	12.89	9.73	9.99
11	13.11	13.47	12.45	13.10	14.26	12.50	12.89	12.63	11.51	12.38	9.72	10.63
12	12.76	13.39	12.40	13.09	14.35	14.27	13.17	12.63	12.39	13.10	9.79	10.57
13	13.33	13.38	12.19	12.60	14.28	14.36	13.73	12.75	11.69	13.19	9.82	9.80
14	13.37	13.00	12.57	11.99	14.29	13.39	13.57	12.89	12.31	13.14	9.81	10.55
15	12.59	12.94	12.90	11.90	14.17	14.10	13.20	12.91	12.27	13.53	9.59	10.76
16	12.57	12.56	12.70	12.69	13.88	15.43	12.69	12.99	11.82	13.49	10.06	10.75
17	12.46	13.16	12.12	12.79	13.91	15.62	13.15	13.14	12.22	12.00	10.35	9.88
18	12.79	13.11	12.90	13.06	14.02	15.89	11.69	12.78	11.92	11.54	10.47	10.98
19	12.42	13.30	13.09	13.06	14.07	14.21	10.23	12.08	11.58	11.56	10.71	10.83
20	12.58	13.34	13.10	13.50	13.94	14.12	10.69	12.40	11.00	12.67	10.65	11.24
21	12.73	13.00	12.84	13.83	14.10	12.61	10.95	11.68	11.87	12.94	10.62	11.17
22	12.59	13.59	12.47	13.80	14.01	13.74	11.27	12.44	12.38	11.75	10.63	10.82
23	13.23	13.47	12.82	12.84	14.92	15.00	11.32	11.94	12.31	10.69	10.59	10.97
24	12.64	13.68	13.10	13.69	15.16	14.92	11.72	11.72	12.59	10.98	10.39	11.29
25	12.98	13.46	13.18	13.66	14.85	14.32	11.72	12.63	12.62	10.57	10.56	11.32
26	13.10	13.48	13.27	14.02	---	12.70	10.57	11.59	12.72	10.36	10.24	11.26
27	13.32	13.00	13.27	14.07	13.45	13.15	11.62	12.49	12.79	8.39	10.35	10.07
28	13.48	13.59	12.98	---	13.78	12.22	11.73	11.73	13.09	8.57	9.38	10.79
29	13.46	13.70	13.20	---	13.56	13.42	11.97	12.88	12.92	9.25	10.02	11.10
30	13.65	13.78	12.30	---	---	13.70	11.96	12.47	12.99	8.31	10.64	10.88
31	13.55	---	12.33	13.78	---	13.36	---	12.61	---	8.86	10.74	---
MAX	14.21	13.78	13.27	14.07	15.16	15.89	13.73	13.14	13.20	13.53	10.74	11.32

CAL YR 1991 LOW 15.54  
WTR YR 1992 LOW 15.89



GREENE COUNTY--Continued

394425083551100. Local number, GR-10.

LOCATION.--Lat 39°44'25", long 83°55'11", Hydrologic Unit 05090202, in well field along Massies Creek north of Xenia.

Owner: Xenia Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 835 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter at land-surface datum.

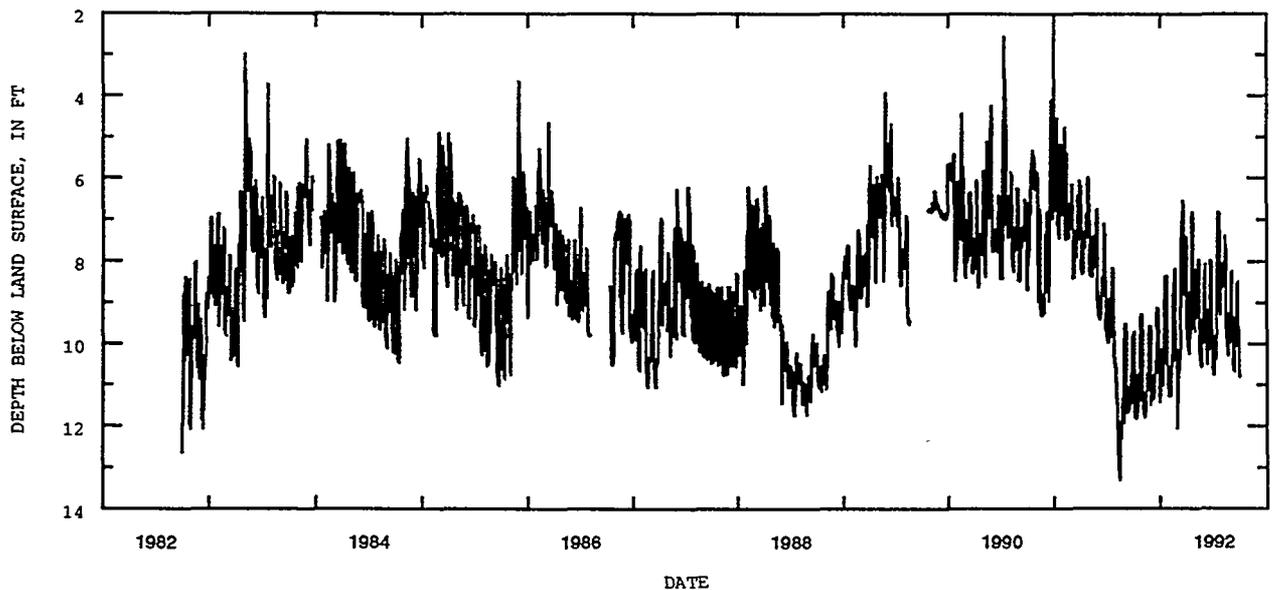
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.40 ft below land-surface datum, Nov. 5, 1977;  
minimum daily low, 0.15 ft below land-surface datum, Feb. 1, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.76	9.82	11.47	11.41	11.08	10.66	7.44	9.69	8.33	10.63	8.57	8.29
2	11.43	9.29	11.50	11.42	11.18	10.64	7.52	9.71	8.33	10.65	8.59	8.28
3	9.81	11.35	11.08	11.17	11.26	12.06	7.54	9.05	8.30	10.71	8.04	8.29
4	11.22	11.48	10.99	10.13	11.27	10.85	7.63	9.18	8.26	10.76	8.14	8.28
5	9.70	11.56	11.09	10.85	---	10.80	9.80	9.21	8.21	10.10	8.28	8.27
6	11.59	11.59	11.18	10.85	---	10.82	9.95	9.28	8.06	10.23	8.43	10.39
7	11.72	11.60	11.26	10.86	---	10.74	10.04	9.33	10.22	10.27	8.53	10.52
8	11.78	11.63	11.34	10.97	---	10.56	10.10	9.30	10.25	10.28	8.57	10.55
9	11.79	11.67	11.34	10.97	11.27	10.49	10.14	9.34	10.29	10.31	8.61	10.62
10	11.76	11.80	11.32	10.97	10.26	10.37	10.17	8.15	10.33	10.31	7.38	10.64
11	11.74	11.80	11.34	10.98	10.31	10.31	10.23	7.95	10.44	10.37	7.47	10.65
12	11.76	11.80	11.30	10.27	10.34	9.94	9.52	7.94	10.47	9.18	7.57	10.64
13	11.83	11.72	11.27	10.32	10.45	9.65	9.63	7.95	10.50	8.98	7.65	9.93
14	11.82	11.66	11.16	10.06	10.45	9.99	9.64	7.97	9.80	8.80	7.68	9.98
15	11.70	11.61	11.05	9.77	10.39	8.21	9.65	7.99	9.90	8.63	7.72	10.03
16	11.68	11.60	10.42	9.72	10.39	7.54	9.74	8.05	9.97	8.21	9.78	10.04
17	11.63	10.73	10.45	9.67	8.93	7.35	9.57	10.17	10.07	7.85	9.94	10.04
18	11.57	10.80	10.45	9.66	8.89	7.19	9.40	10.31	10.08	7.14	10.03	10.04
19	11.53	10.81	10.55	9.41	8.68	6.92	8.04	10.37	9.55	6.82	10.11	10.05
20	10.74	10.82	10.68	8.36	8.58	7.02	6.93	10.45	9.41	6.83	10.18	8.95
21	10.80	10.81	10.67	8.39	8.48	6.54	6.82	10.49	9.01	6.86	10.25	8.72
22	10.82	10.83	10.67	8.42	8.43	6.63	6.84	10.55	8.04	7.05	10.28	8.57
23	10.82	10.85	9.41	8.40	8.34	7.35	6.92	10.56	7.98	7.23	10.28	8.54
24	10.83	10.88	9.29	8.39	8.18	7.39	6.97	9.79	8.00	7.34	9.67	8.54
25	10.73	9.74	9.18	8.34	9.98	8.19	7.07	9.75	8.01	7.37	9.74	8.52
26	10.68	9.67	9.16	10.28	10.25	8.43	9.27	9.77	8.05	9.30	9.77	8.52
27	10.12	9.72	9.18	10.76	10.33	8.64	9.41	9.87	8.13	8.24	9.72	10.63
28	9.44	9.65	9.18	10.97	10.46	8.81	9.53	9.92	10.28	8.41	9.64	10.73
29	9.37	9.58	11.08	10.98	10.54	7.96	9.58	9.97	10.48	8.55	9.64	10.77
30	9.33	9.58	11.25	11.07	---	7.55	9.65	9.90	10.58	8.65	8.81	10.80
31	9.27	---	11.33	11.08	---	7.42	---	8.84	---	8.48	8.30	---
MAX	11.83	11.80	11.50	11.42	11.27	12.06	10.23	10.56	10.58	10.76	10.28	10.80
CAL YR 1991	LOW	13.31										
WTR YR 1992	LOW	12.06										



## HAMILTON COUNTY

391039084291500. Local number, H-11.

LOCATION.--Lat 39°10'39", long 84°29'15", Hydrologic Unit 05090203, 5.6 mi north of Riverfront Stadium in Cincinnati.

Owner: Procter and Gamble Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 148 ft, cased.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 539 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 2.23 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1939 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 129.72 ft below land-surface datum, Oct 25, 1948;  
minimum measured low, 59.45 ft below land-surface datum, Apr. 10, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 23, 1991	60.79	Apr. 10, 1992	59.45

## HAMILTON COUNTY-Continued

391101084172100. Local number, H-3.

LOCATION.--Lat 39°11'01", long 84°17'21", Hydrologic Unit 05090202, southeast of Miamiville.

Owner: Indian Hills Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 4 in., depth 60 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 532.22 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

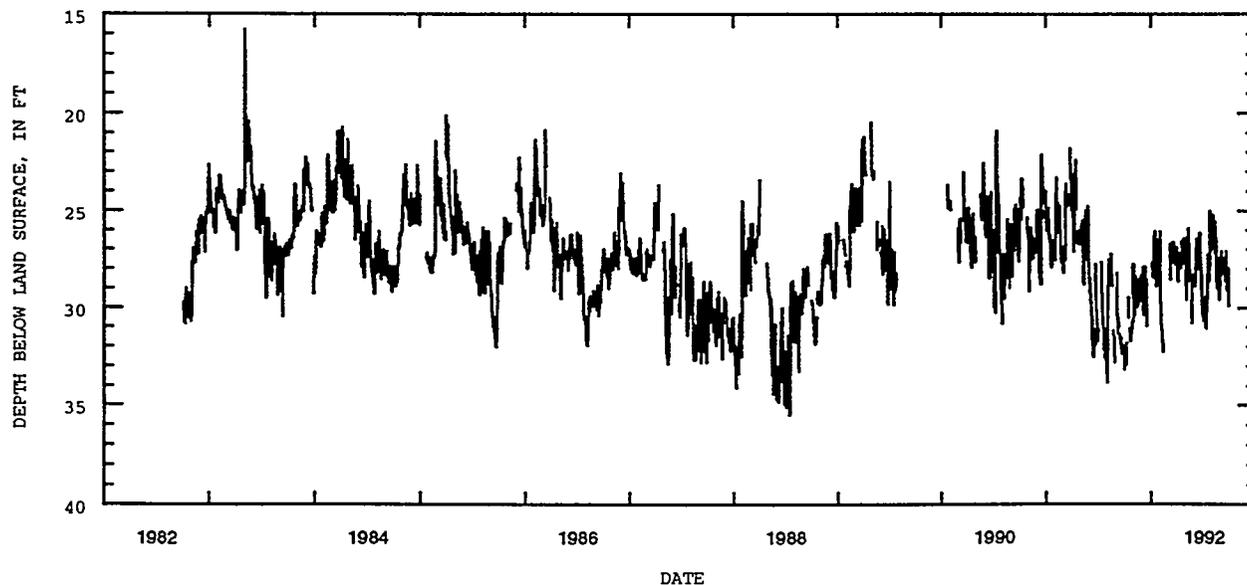
PERIOD OF RECORD.--August 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 35.75 ft below land-surface datum, Aug. 29, 1955;  
minimum daily low, 15.60 ft below land-surface datum, Feb. 28, 1962.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.28	30.68	28.28	---	27.74	---	26.86	27.40	28.82	---	26.95	28.28
2	33.11	28.23	28.57	---	28.59	---	27.06	27.70	28.75	30.52	25.78	27.07
3	33.20	27.89	28.39	---	27.97	---	27.18	27.86	28.85	30.69	27.00	27.35
4	32.15	27.75	28.34	---	26.06	29.76	27.33	28.08	28.92	30.48	25.62	27.61
5	32.32	30.25	29.43	---	28.76	---	28.34	29.59	28.49	30.30	25.20	27.52
6	32.92	30.41	29.84	---	30.77	---	28.64	27.75	28.12	30.32	26.12	27.80
7	32.96	28.76	30.36	27.78	30.81	---	27.77	27.30	27.67	30.30	26.90	27.99
8	32.91	28.69	27.87	27.93	30.96	---	27.92	27.41	27.31	30.16	27.18	27.78
9	31.83	28.88	30.08	27.63	31.02	---	27.92	26.48	26.45	30.97	26.32	27.37
10	31.82	28.35	29.30	28.41	31.24	28.52	27.14	26.34	26.82	30.99	26.10	28.02
11	---	29.08	29.91	27.79	31.57	26.71	27.99	26.68	27.40	29.37	25.49	28.17
12	---	29.69	29.96	28.46	31.78	26.90	27.16	26.57	27.77	30.19	25.77	28.11
13	---	29.69	29.34	27.78	31.78	27.18	27.40	25.89	27.65	29.74	25.98	28.22
14	---	29.74	27.86	27.93	32.26	27.29	27.64	27.49	27.46	29.53	26.33	28.59
15	---	29.95	28.18	26.33	---	26.91	27.73	27.95	27.76	29.53	26.57	28.61
16	---	---	29.81	26.28	---	27.01	27.83	28.16	27.54	28.45	28.35	28.08
17	30.49	---	30.48	26.06	---	27.09	27.87	28.34	27.76	28.20	28.96	28.15
18	29.50	---	28.52	26.24	---	27.11	27.56	28.47	28.07	27.21	28.43	27.07
19	---	29.85	30.94	26.93	31.63	26.91	27.54	28.55	26.17	27.66	28.64	28.29
20	---	29.76	---	27.05	---	26.60	26.60	28.70	26.18	27.64	28.51	28.50
21	31.09	29.66	---	27.60	---	26.80	26.60	28.72	27.26	27.76	28.72	28.01
22	31.41	29.14	---	28.90	---	27.06	26.56	28.92	27.32	27.82	28.81	28.98
23	31.66	28.47	---	26.85	---	27.19	26.57	29.59	28.06	28.66	29.01	29.10
24	31.75	29.59	---	26.63	---	27.47	26.77	30.77	28.87	27.08	29.16	27.98
25	31.53	29.70	---	26.51	---	27.69	26.55	---	29.07	24.96	29.54	28.09
26	31.32	29.44	---	26.94	---	27.70	26.50	---	28.28	25.42	29.58	28.98
27	31.15	28.98	---	27.86	---	27.77	27.04	---	28.34	25.44	29.50	27.93
28	31.08	28.98	---	26.84	---	27.69	27.13	28.31	30.28	25.13	28.22	29.90
29	30.85	28.97	---	26.91	---	27.52	27.26	28.37	30.45	25.58	27.34	---
30	30.74	28.32	---	26.92	---	27.24	27.53	28.40	---	25.74	27.65	---
31	30.70	---	---	28.28	---	27.05	---	28.85	---	25.88	27.72	---
MAX	33.20	30.68	30.94	28.90	32.26	29.76	28.64	30.77	30.45	30.99	29.58	29.90

CAL YR 1991 LOW 33.85

WTR YR 1992 LOW 33.20



## HAMILTON COUNTY-Continued

391201084281600. Local number, H-10.

LOCATION.--Lat 39°12'01", long 84°28'16", Hydrologic Unit 05090203, Section Road, Cincinnati.

Owner: National Distillers.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 170 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute.

DATUM.--Elevation of land-surface datum is 544.7 ft above National Geodetic Vertical Datum of 1929.

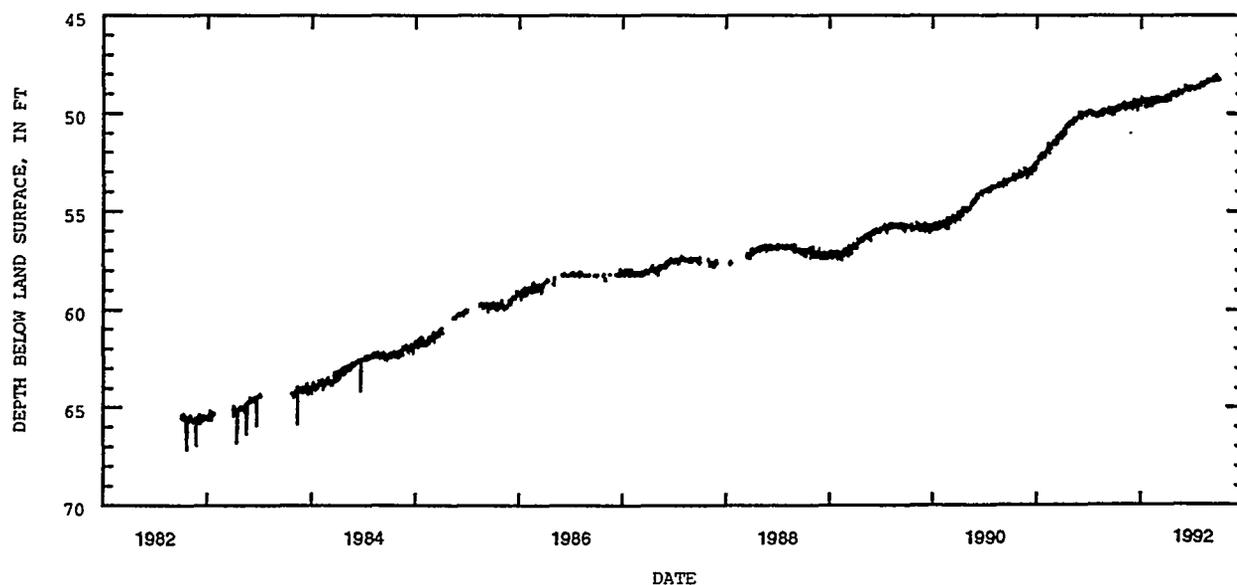
Measuring point: Floor of instrument shelter 8.13 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--January 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 121.58 ft below land-surface datum, Nov. 3, 10, 1950;  
minimum daily low, 48.00 ft below land-surface datum, Sept. 21, 1992.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.83	49.47	49.60	49.50	49.49	49.39	49.08	48.97	48.84	48.67	48.63	48.34
2	49.73	49.71	49.49	49.40	49.49	49.32	49.10	48.91	48.79	48.70	48.53	48.25
3	49.72	49.76	49.42	49.15	49.36	49.33	49.08	48.96	48.74	48.77	48.41	48.27
4	49.72	49.79	49.73	49.29	49.33	49.34	49.19	48.95	48.63	48.83	48.48	48.32
5	49.85	49.72	49.70	49.30	49.34	49.29	49.32	49.00	48.68	48.68	48.52	48.28
6	49.90	49.59	49.59	49.29	49.19	49.23	49.28	49.11	48.75	48.75	48.53	48.26
7	49.92	49.74	49.40	49.41	49.18	49.17	49.08	49.14	48.82	48.80	48.46	48.22
8	49.89	49.79	49.38	49.41	49.45	49.27	49.17	48.95	48.88	48.71	48.39	48.18
9	49.83	49.77	49.44	49.28	49.58	49.24	49.10	48.96	48.81	48.68	48.43	48.17
10	49.70	49.60	49.55	49.40	49.56	49.18	49.09	49.04	48.82	48.68	48.36	48.25
11	49.57	49.59	49.54	49.43	49.54	49.27	49.06	48.99	48.83	48.72	48.39	48.33
12	49.71	49.58	49.49	49.39	49.56	49.29	49.33	48.86	48.81	48.67	48.44	48.37
13	49.80	49.55	49.32	49.24	49.27	49.33	49.34	48.86	48.74	48.65	48.40	48.26
14	49.66	49.52	49.60	49.59	49.32	49.26	49.17	48.90	48.71	48.60	48.42	48.21
15	49.65	49.51	49.61	49.65	49.19	49.38	49.08	48.94	48.77	48.61	48.39	48.26
16	49.74	49.66	49.63	49.71	49.45	49.43	48.97	49.01	48.81	48.64	48.40	48.21
17	49.62	49.67	49.49	49.59	49.44	49.23	48.98	48.98	48.76	48.68	48.38	48.12
18	49.80	49.45	49.80	49.72	49.18	49.22	48.94	48.97	48.72	48.70	48.34	48.09
19	49.80	49.51	49.86	49.72	49.36	49.22	48.92	48.97	48.66	48.69	48.33	48.19
20	49.86	49.44	49.74	49.47	49.49	49.28	48.88	48.99	48.74	48.65	48.36	48.11
21	49.63	49.50	49.55	49.42	49.49	49.32	48.97	49.00	48.80	48.66	48.41	48.00
22	49.63	49.49	49.45	49.38	49.37	49.15	49.11	48.96	48.81	48.65	48.38	48.24
23	49.62	49.48	49.28	49.22	49.25	49.26	49.11	48.85	48.69	48.60	48.37	48.34
24	49.62	49.58	49.45	49.59	49.28	49.32	48.95	48.85	48.57	48.62	48.37	48.29
25	49.60	49.68	49.53	49.63	49.23	49.25	48.97	48.83	48.65	48.64	48.38	48.21
26	49.57	49.74	49.51	49.68	49.16	49.09	49.02	48.77	48.71	48.50	48.31	48.14
27	49.57	49.61	49.60	49.55	49.18	49.29	49.05	48.83	48.77	48.52	48.24	48.15
28	49.62	49.58	49.48	49.58	49.19	49.33	49.09	48.88	48.75	48.57	48.30	48.22
29	49.65	49.48	49.29	49.50	49.46	49.22	48.99	48.84	48.70	48.51	48.35	48.30
30	49.64	49.57	49.51	49.38	---	49.09	48.96	48.81	48.66	48.47	48.28	48.22
31	49.53	---	49.56	49.35	---	49.13	---	48.88	---	48.59	48.33	---
MAX	49.92	49.79	49.86	49.72	49.58	49.43	49.34	49.14	48.88	48.83	48.63	48.37

CAL YR 1991 LOW 52.77  
WTR YR 1992 LOW 49.92

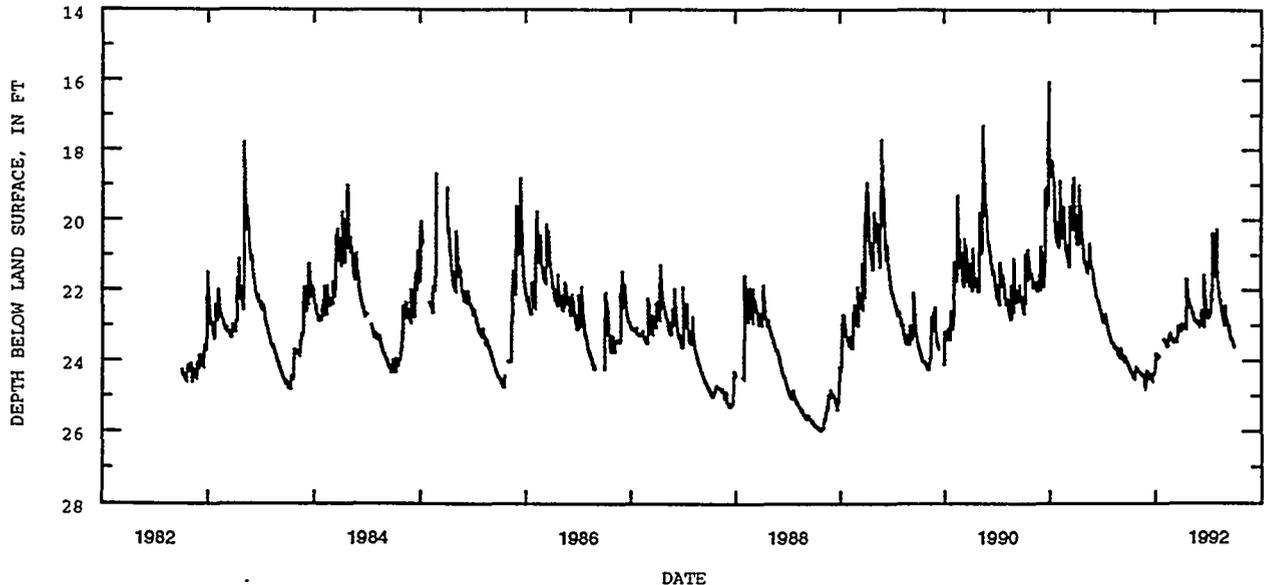
GROUND-WATER RECORDS

HAMILTON COUNTY-Continued

391214084470100. Local number, H-1.  
 LOCATION.--Lat 39°12'14", long 84°47'01", Hydrologic Unit 05080003, Kilby Road 4 mi southeast of Harrison.  
 Owner: Robert Weber.  
 AQUIFER.--Sand and gravel of Pleistocene Age.  
 WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in., depth 124 ft, cased.  
 INSTRUMENTATION.--Type F continuous recorder.  
 DATUM.--Elevation of land-surface datum is 500 ft above National Geodetic Vertical Datum of 1929, from topographic map.  
 Measuring point: Floor of instrument shelter 2.70 ft above land-surface datum.  
 REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.  
 PERIOD OF RECORD.--February 1948 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.95 ft below land-surface datum, Oct. 26-27, 1988;  
 minimum daily low, 14.00 ft below land-surface datum, Jan. 22, 1959.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.13	24.25	24.66	24.28	---	23.39	22.96	22.47	22.86	22.78	20.26	22.76
2	24.15	24.26	24.66	24.28	---	23.42	23.00	22.49	22.92	22.82	21.00	22.81
3	24.16	24.27	24.50	24.10	23.40	23.47	23.02	22.48	22.98	22.79	21.33	22.85
4	24.19	24.28	24.29	23.78	23.45	23.48	23.05	22.51	22.98	22.67	21.53	22.90
5	24.20	24.29	24.30	23.82	23.45	23.48	23.05	22.52	22.93	22.75	21.68	22.95
6	24.23	24.30	24.32	23.84	23.45	23.48	23.07	22.55	22.97	22.75	21.80	22.97
7	24.25	24.31	24.35	23.84	23.48	23.48	23.08	22.62	22.92	22.70	21.90	22.98
8	24.27	24.33	24.38	23.84	23.52	23.47	23.10	22.65	22.76	22.69	21.95	23.04
9	24.29	24.33	24.40	23.84	23.53	23.45	23.10	22.66	22.57	22.62	22.01	23.06
10	24.29	24.34	24.45	23.83	23.55	23.43	23.10	22.64	22.68	22.63	22.09	23.05
11	24.31	24.35	24.48	23.88	23.57	23.40	22.95	22.66	22.83	22.47	22.17	23.05
12	24.33	24.35	24.51	23.89	23.58	23.38	23.00	22.67	22.87	22.15	22.25	23.07
13	24.35	24.36	24.51	23.90	23.58	23.38	23.03	22.74	22.91	22.11	22.32	23.10
14	24.35	24.37	24.45	23.88	23.58	23.40	23.05	22.78	22.94	22.30	22.39	23.17
15	24.38	24.39	24.40	---	23.57	23.42	23.07	22.82	22.95	22.30	22.45	23.21
16	24.40	24.40	24.41	---	23.48	23.43	23.07	22.84	23.00	21.98	22.50	23.31
17	24.42	24.40	24.45	---	23.42	23.45	23.08	22.87	23.03	22.02	22.56	23.33
18	24.44	24.40	24.48	---	23.34	23.45	23.08	22.88	23.07	20.36	22.62	23.35
19	24.45	24.41	24.50	---	23.33	23.18	21.95	22.87	21.55	20.55	22.67	23.37
20	24.47	24.42	24.52	---	23.31	23.00	21.71	22.86	21.90	21.30	22.72	23.40
21	24.49	24.42	24.54	---	23.25	23.04	21.73	22.89	22.00	21.44	22.77	23.43
22	24.49	24.40	24.55	---	23.24	23.09	21.66	22.92	22.12	21.48	22.83	23.40
23	24.42	24.39	24.55	---	23.24	23.13	21.92	22.94	22.22	21.55	22.87	23.40
24	24.43	24.40	24.47	---	23.26	23.15	22.06	22.94	22.32	21.63	22.91	23.42
25	24.37	24.43	24.37	---	23.28	23.18	22.15	22.90	22.43	20.91	22.95	23.47
26	24.26	24.55	24.37	---	23.33	23.18	22.24	22.90	22.53	21.17	22.98	23.50
27	24.24	24.70	24.37	---	23.35	23.18	22.31	22.94	22.56	21.17	23.00	23.52
28	24.22	24.76	24.37	---	23.37	23.18	22.37	22.96	22.56	21.06	22.73	23.56
29	24.21	24.76	24.37	---	23.39	23.18	22.40	22.98	22.61	20.87	22.42	23.59
30	24.22	24.70	24.34	---	---	23.18	22.45	22.97	22.72	20.89	22.57	23.61
31	24.23	---	24.28	---	---	23.08	---	22.90	---	20.49	22.69	---
MAX	24.49	24.76	24.66	24.28	23.58	23.48	23.10	22.98	23.07	22.82	23.00	23.61
CAL YR 1991	LOW 24.76											
WTR YR 1992	LOW 24.76											



## HAMILTON COUNTY--Continued

391324084272500. Local number, H-9.

LOCATION.--Lat 39°13'24", long 84°27'25", Hydrologic Unit 05090203, 9.1 mi north of Riverfront Stadium in Cincinnati.

Owner: Diamond National Corporation.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth drilled 168 ft, present depth 163 ft cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 555.30 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter, 2.76 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1938 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 136.80 ft below land-surface datum, Nov. 9, 1947, Feb. 15, 1948; minimum water level measured, 41.00 ft below land-surface datum, Apr. 10, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 23, 1991	42.33	Apr. 10, 1992	41.00

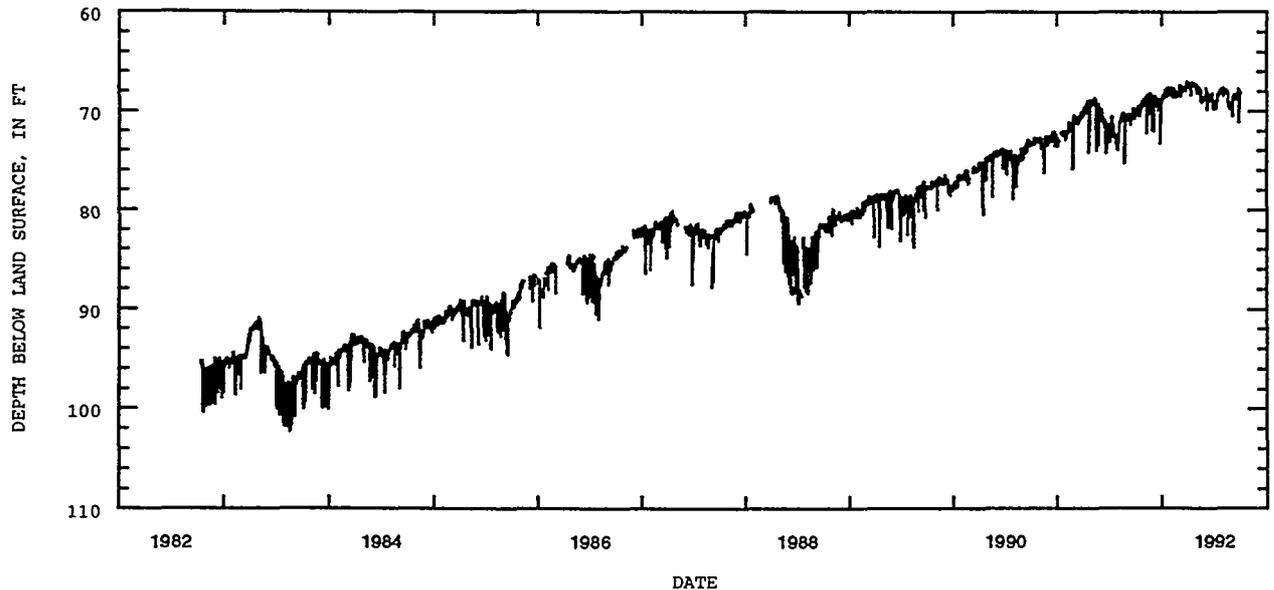
HAMILTON COUNTY-Continued

391341084275300. Local number, H-8.  
 LOCATION.--Lat 39°13'41", long 84°27'53", Hydrologic Unit 05090203. Vine and Water Streets, Wyoming.  
 Owner.--Wyoming Water Department.  
 AQUIFER.--Sand and gravel of Pleistocene Age.  
 WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 194 ft, cased.  
 INSTRUMENTATION.--Type F continuous recorder.  
 DATUM.--Elevation of land-surface datum is 576.2 ft above National Geodetic Vertical Datum of 1929.  
 Measuring point: Top of platform 3.30 ft above land-surface datum.  
 REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.  
 PERIOD OF RECORD.--June 1938 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 148.86 ft below land-surface datum, Dec. 1, 1948;  
 minimum daily low, 67.05 ft below land-surface datum, Apr. 3, 15, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.50	68.80	68.70	69.00	67.80	68.25	67.10	67.55	68.55	69.30	67.80	69.20
2	70.35	69.20	68.55	68.65	67.90	68.10	67.15	67.45	68.50	69.50	67.75	70.50
3	70.30	69.35	68.45	68.50	67.80	68.00	67.05	68.20	68.35	69.40	68.50	68.60
4	70.25	69.30	72.00	68.55	67.55	68.00	67.30	67.90	68.90	69.20	67.90	68.70
5	70.20	69.50	69.35	68.40	68.05	67.60	67.55	67.60	67.55	69.10	68.00	68.60
6	70.45	68.50	68.80	68.50	68.05	67.30	67.55	67.80	67.75	69.00	68.00	68.60
7	70.30	68.70	68.50	68.55	67.65	68.20	67.30	67.85	68.35	69.05	67.95	68.55
8	70.20	68.75	68.40	68.50	68.10	68.45	67.30	67.70	69.90	69.75	67.85	68.45
9	70.20	68.75	68.70	68.25	68.60	68.10	67.40	67.40	68.20	68.95	68.10	68.25
10	69.90	68.60	68.80	68.35	68.60	67.55	67.30	67.75	68.50	68.80	67.90	68.45
11	69.50	72.20	68.90	68.40	68.35	67.60	67.80	68.10	68.60	68.60	67.75	68.55
12	69.70	68.90	68.60	68.25	68.55	67.70	68.40	68.15	68.65	68.30	67.80	68.65
13	69.95	68.40	68.75	68.10	68.00	67.70	68.15	67.60	68.60	69.05	67.80	68.75
14	69.60	68.35	69.00	67.80	67.95	67.70	67.20	67.75	68.60	68.90	68.15	68.70
15	69.65	68.30	69.10	68.00	67.60	68.00	67.05	67.85	68.90	68.25	68.00	68.90
16	69.70	68.50	69.05	68.05	68.60	67.90	67.30	68.90	69.05	68.20	67.90	68.75
17	70.50	68.50	69.00	68.05	68.60	67.65	67.30	68.95	68.90	68.20	67.90	68.70
18	69.65	68.35	69.70	68.30	67.90	67.50	67.20	68.75	68.70	68.25	68.25	68.40
19	69.70	68.20	69.65	68.30	68.05	67.75	67.20	68.50	68.35	68.20	69.00	68.50
20	69.65	68.10	69.55	68.10	68.15	67.70	67.10	68.85	68.40	68.25	69.20	68.25
21	69.50	68.50	69.25	68.10	68.25	67.60	67.15	68.95	68.50	68.15	69.40	68.10
22	69.50	68.45	69.00	67.90	68.20	67.60	67.40	68.95	68.50	68.05	69.40	68.35
23	69.55	68.40	68.70	67.55	68.15	67.75	67.30	68.85	68.15	68.00	69.50	68.55
24	69.55	68.65	69.15	67.95	68.50	67.70	67.20	68.60	68.10	68.00	69.65	68.55
25	69.30	68.85	69.20	68.00	68.40	67.90	67.30	68.60	68.45	68.00	69.65	68.10
26	69.20	68.80	69.20	68.20	68.30	67.40	67.40	68.55	68.65	67.75	69.70	67.65
27	69.30	71.90	69.30	68.30	68.00	67.70	67.40	68.60	69.10	67.80	69.60	71.10
28	69.25	68.70	73.25	68.35	68.05	67.70	67.35	68.85	69.50	68.10	69.15	68.20
29	69.30	68.60	68.95	68.05	68.15	67.50	67.15	68.55	69.85	67.80	69.40	68.15
30	69.30	68.75	69.20	67.90	---	67.30	67.20	68.45	69.35	67.70	69.00	68.10
31	69.05	---	69.15	67.65	---	67.35	---	68.65	---	67.75	69.20	---
MAX	70.50	72.20	73.25	69.00	68.60	68.45	68.40	68.95	69.90	69.75	69.70	71.10

CAL YR 1991    LOW 75.85  
 WTR YR 1992    LOW 73.25

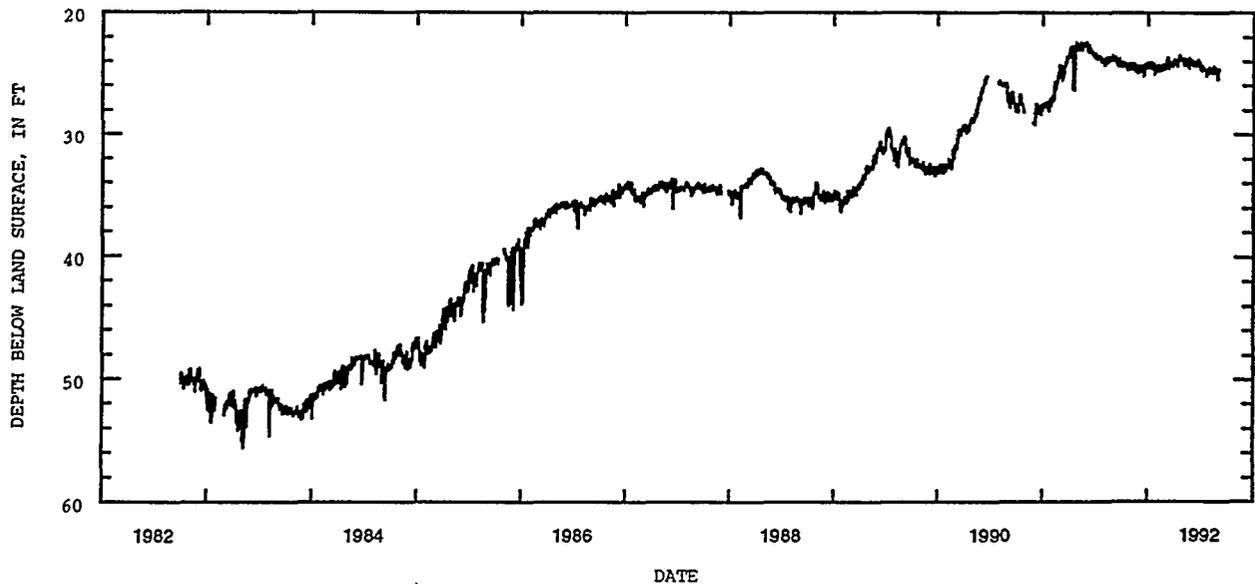


HAMILTON COUNTY-Continued

391442084262900. Local number, H-7.  
 LOCATION.--Lat 39°14'42", long 84°26'29", Hydrologic Unit 05090203, at Evendale.  
 Owner: General Electric Corp.  
 AQUIFER.--Sand and gravel of Pleistocene Age.  
 WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 180 ft, cased.  
 INSTRUMENTATION.--Type F continuous recorder.  
 DATUM.--Elevation of land-surface datum is 555.40 ft above National Geodetic Vertical Datum of 1929.  
 Measuring point: Floor of instrument shelter 7.78 ft above land-surface datum.  
 REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.  
 PERIOD OF RECORD.--April 1941 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 101.09 ft below land-surface datum, Jan. 29, 1964;  
 minimum daily low, 22.46 ft below land-surface datum, May 14, 30, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.05	24.09	24.63	24.55	24.65	24.63	23.91	23.78	24.26	24.36	24.85	24.93
2	23.99	24.46	24.51	24.43	24.66	24.40	23.95	23.70	24.21	24.43	24.78	24.73
3	24.08	24.56	24.30	24.07	24.53	24.45	23.95	23.86	24.14	24.56	24.58	24.52
4	24.14	24.53	24.83	24.15	24.40	24.50	23.80	23.87	24.01	24.61	24.50	24.69
5	24.26	24.48	24.84	24.20	24.47	24.47	24.20	23.93	23.83	24.43	24.58	---
6	24.35	24.19	24.63	24.15	24.35	24.40	24.22	24.15	23.93	24.31	24.65	---
7	24.35	24.39	24.49	24.32	24.24	24.20	24.05	24.22	24.05	24.41	24.67	---
8	24.29	24.48	24.39	24.34	24.55	24.18	24.03	24.06	24.19	24.39	24.64	---
9	24.31	24.47	24.54	24.10	24.78	24.18	23.98	23.76	24.15	24.38	24.58	---
10	24.25	24.28	24.69	24.22	24.78	23.63	24.03	23.89	24.16	24.50	24.57	---
11	24.18	24.17	24.68	24.23	24.75	23.66	23.96	23.86	24.19	24.61	24.70	---
12	24.20	24.18	24.65	24.18	24.83	23.75	24.37	23.74	24.21	24.61	24.85	---
13	24.34	24.17	24.33	24.00	24.60	23.95	24.40	23.73	24.16	24.59	24.86	---
14	24.25	24.32	24.70	24.20	24.51	24.25	24.16	23.87	24.13	24.62	24.84	---
15	24.10	24.42	24.73	24.37	24.35	24.57	24.02	23.99	24.19	24.55	24.78	---
16	24.25	24.63	24.77	24.60	24.55	24.61	23.85	24.10	24.26	24.63	24.66	---
17	24.26	24.66	24.55	24.43	24.56	24.25	23.80	24.11	24.23	24.65	24.61	---
18	24.25	24.43	24.98	24.65	24.36	24.20	23.80	24.17	24.11	24.67	24.50	---
19	24.40	24.35	25.10	24.67	24.49	24.17	23.70	24.20	24.06	24.67	24.53	---
20	24.41	24.40	25.05	24.34	24.72	24.27	23.56	24.27	24.15	24.63	24.58	---
21	24.33	24.52	24.65	24.34	24.75	24.38	23.46	24.37	24.24	24.78	24.66	---
22	24.38	24.65	24.58	24.30	24.71	24.17	23.85	24.40	24.25	25.20	24.71	---
23	24.50	24.80	24.18	24.10	24.47	24.30	23.95	24.32	24.13	25.12	24.69	---
24	24.55	24.68	24.40	24.60	24.47	24.42	23.80	24.10	23.82	24.86	24.69	---
25	24.56	24.77	24.55	24.63	24.47	24.39	23.77	24.08	23.85	24.83	24.75	---
26	24.53	24.83	24.55	24.91	24.38	24.10	23.79	23.78	23.95	24.71	24.80	---
27	24.34	24.76	24.52	24.86	24.28	24.10	23.83	23.84	24.15	24.56	24.95	---
28	24.36	24.78	24.45	24.81	24.28	24.28	23.93	24.00	24.20	24.66	25.23	---
29	24.35	24.68	24.10	24.77	24.63	24.25	23.86	24.01	24.17	24.63	25.50	---
30	24.35	24.57	24.48	24.68	---	24.05	23.68	24.01	24.23	24.59	25.35	---
31	24.25	---	24.56	24.42	---	24.07	---	24.22	---	24.78	24.97	---
MAX	24.56	24.83	25.10	24.91	24.83	24.63	24.40	24.40	24.26	25.20	25.50	24.93
CAL YR 1991	LOW 28.11											
WTR YR 1992	LOW 25.50											



HAMILTON COUNTY--Continued

391608084254400. Local number, H-6.

LOCATION.--Lat 39°16'08", long 84°25'44", Hydrologic Unit 05090203, Water Treatment Plant in Glendale.

Owner: Glendale Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 167 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 570.65 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 4.05 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

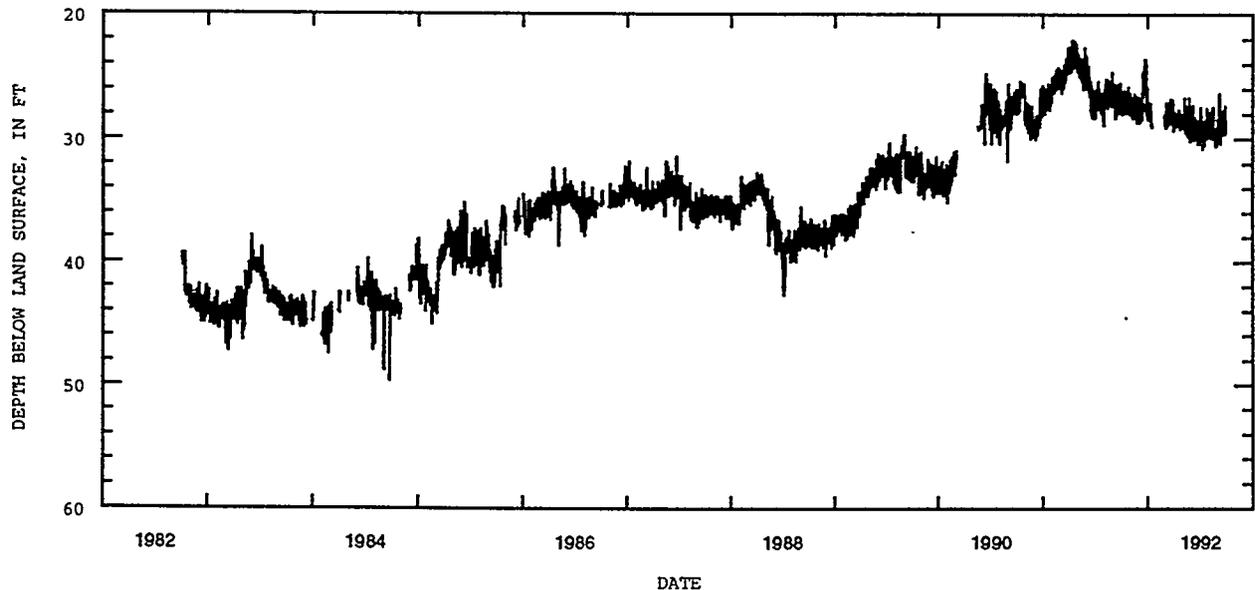
PERIOD OF RECORD.--July 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 84.10 ft below land-surface datum, Oct. 14, 1960; minimum daily low, 22.00 ft below land-surface datum, Apr. 14, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.20	28.00	26.50	25.80	---	---	29.20	29.00	27.90	29.90	29.60	29.30
2	27.50	27.90	26.80	27.40	---	---	29.30	29.00	28.80	30.00	27.80	29.60
3	27.60	26.30	28.10	28.40	---	28.10	28.90	28.20	28.50	30.40	28.60	29.80
4	28.00	26.80	28.30	28.40	---	28.50	28.80	28.30	29.00	28.40	29.60	29.60
5	28.00	27.30	28.60	27.60	---	28.70	28.00	28.60	29.20	27.40	29.70	29.30
6	26.20	27.60	28.70	27.00	---	29.10	27.80	28.90	29.10	28.70	29.80	28.00
7	27.00	27.60	28.50	27.60	---	28.60	28.90	28.90	27.20	29.40	29.80	25.30
8	27.70	26.60	27.20	27.80	---	27.00	28.70	29.00	28.20	29.50	29.60	27.20
9	28.00	28.10	27.10	27.90	---	27.80	29.00	29.20	29.40	29.80	28.10	28.20
10	27.70	26.70	27.90	28.10	---	28.60	28.70	26.60	29.50	30.60	27.70	29.20
11	27.70	27.30	28.10	28.30	---	28.60	28.70	28.10	29.90	30.80	28.90	30.40
12	27.60	28.00	28.20	27.00	---	28.90	28.20	28.80	30.10	28.80	29.50	29.80
13	26.00	28.30	28.20	27.20	---	28.50	27.90	29.00	29.70	28.80	30.00	28.40
14	26.60	28.10	28.40	28.20	---	28.70	28.60	29.30	28.20	29.80	29.60	28.50
15	27.40	28.10	26.70	28.70	---	27.10	28.90	29.40	28.40	30.00	29.60	29.10
16	27.50	27.80	25.80	29.00	---	27.70	29.00	29.50	29.50	30.10	27.40	29.60
17	27.60	26.30	24.60	---	---	28.40	28.20	29.10	29.80	30.50	27.90	29.70
18	27.60	27.30	24.90	---	---	28.40	28.40	28.60	29.60	30.40	29.20	29.40
19	27.90	27.80	25.00	---	---	28.60	27.60	29.20	29.70	29.00	29.30	29.20
20	26.20	27.90	25.00	---	---	28.50	27.60	29.30	29.80	28.40	29.50	28.30
21	26.60	28.20	24.60	---	---	28.40	28.20	29.60	28.40	29.00	29.80	27.60
22	27.50	28.20	23.70	---	---	26.70	28.60	29.80	28.40	29.40	29.90	28.80
23	27.70	28.00	23.50	---	---	27.40	28.70	29.40	29.30	29.60	29.30	29.50
24	27.80	26.50	23.60	---	---	27.80	28.80	27.90	29.50	30.00	29.40	29.60
25	27.90	28.00	25.60	---	---	27.60	29.20	26.60	30.00	29.80	30.20	29.60
26	27.80	28.70	23.60	---	---	27.60	28.00	28.40	30.40	27.50	30.60	28.90
27	25.70	28.30	24.20	---	---	28.80	28.00	29.10	30.10	28.50	30.50	27.30
28	26.60	28.50	27.90	---	---	27.70	28.00	29.60	29.00	29.10	30.40	27.80
29	26.90	27.20	27.30	---	---	26.80	28.40	30.20	29.30	29.50	30.30	29.00
30	27.50	27.80	28.00	---	---	27.40	28.80	29.90	29.60	29.60	28.40	29.50
31	27.60	---	28.20	---	---	28.50	---	29.10	---	29.90	---	---
MAX	28.00	28.70	28.70	29.00	---	29.10	29.30	30.20	30.40	30.80	30.60	30.40

CAL YR 1991 LOW 28.90  
WTR YR 1992 LOW 30.80



## HAMILTON COUNTY-Continued

391733084392400. Local number, H-2.

LOCATION.--Lat 39°17'33", long 84°39'24", Hydrologic Unit 05080002, East Miami River Road 1.5 mi south of Ross.

Owner: Lee Wilhelm.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 89 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 534.21 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 8.97 ft above land-surface datum.

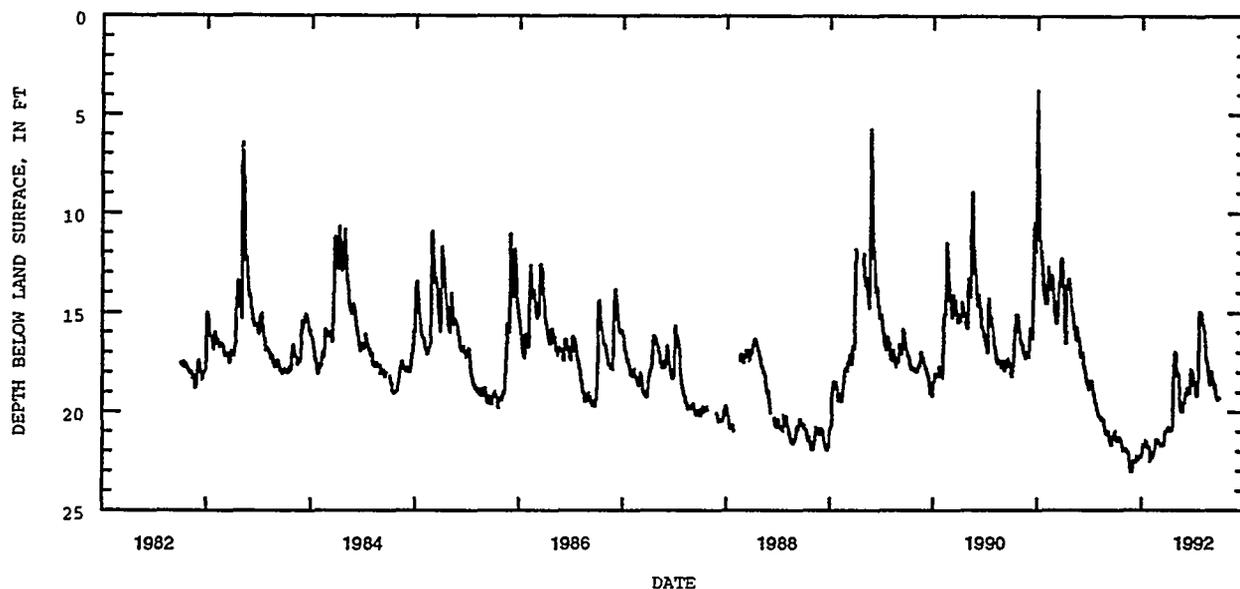
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.37 ft below land-surface datum, Sept. 24, 25, 1972; minimum daily low 1.60 ft below land-surface datum, June, 16, 1958. (Water level above land surface but could not be measured during January 1959 flood.)

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.03	21.98	23.00	22.28	22.23	21.49	20.97	17.30	19.45	18.30	15.56	17.91
2	21.13	21.98	22.91	22.25	22.40	21.52	20.90	17.69	19.30	18.42	15.53	18.03
3	21.20	21.93	22.84	22.20	22.46	21.56	20.85	17.94	19.18	18.54	15.55	18.17
4	21.27	21.89	22.68	22.16	22.43	21.58	20.82	18.09	19.11	18.60	15.70	18.28
5	21.35	21.89	22.55	22.00	22.32	21.61	20.85	18.08	19.13	18.61	15.87	18.34
6	21.44	21.89	22.52	21.86	22.20	21.62	20.90	18.00	19.13	18.74	16.05	18.38
7	21.47	21.85	22.54	21.76	22.06	21.66	20.92	18.03	19.11	18.81	16.24	18.42
8	21.47	21.89	22.56	21.68	22.21	21.73	20.93	18.09	19.06	18.89	16.45	18.48
9	21.48	21.93	22.60	21.67	22.31	21.75	20.94	18.15	18.93	19.00	16.61	18.55
10	21.48	21.97	22.60	21.71	22.37	21.75	20.94	18.17	18.83	19.10	16.78	18.66
11	21.48	21.99	22.60	21.71	22.37	21.75	20.95	18.18	18.78	19.19	17.02	18.71
12	21.47	22.03	22.58	21.71	22.26	21.71	20.95	18.31	18.77	19.19	17.20	18.72
13	21.42	22.04	22.56	21.76	22.20	21.66	20.95	18.55	18.77	19.15	17.29	18.71
14	21.36	22.04	22.53	21.76	22.17	21.64	20.94	18.91	18.80	19.17	17.38	18.69
15	21.30	22.02	22.48	21.71	22.09	21.64	20.93	19.21	18.90	19.10	17.41	18.77
16	21.29	21.99	22.39	21.59	22.03	21.68	20.92	19.49	18.97	18.67	17.44	18.88
17	21.31	22.06	22.33	21.52	21.98	21.70	20.90	19.63	19.03	18.08	17.52	19.00
18	21.36	22.14	22.36	21.54	21.91	21.70	20.86	19.79	19.06	17.40	17.61	19.12
19	21.40	22.24	22.40	21.54	21.82	21.70	20.65	19.93	19.03	16.40	17.70	19.22
20	21.40	22.42	22.45	21.59	21.72	21.61	20.13	19.96	18.77	15.50	17.80	19.24
21	21.41	22.56	22.45	21.66	21.62	21.43	19.50	19.96	18.43	14.96	17.95	19.25
22	21.42	22.69	22.45	21.71	21.52	21.25	18.95	19.96	18.15	14.93	18.06	19.27
23	21.46	22.81	22.43	21.77	21.44	21.14	18.45	19.96	17.98	14.93	18.15	19.31
24	21.51	22.89	22.42	21.83	21.39	21.08	18.05	19.92	17.90	14.98	18.26	19.35
25	21.60	22.93	22.36	21.83	21.42	21.05	17.75	19.85	17.93	15.00	18.40	19.36
26	21.70	22.98	22.30	21.83	21.45	21.00	17.48	19.74	17.98	15.03	18.51	19.36
27	21.75	23.03	22.27	21.82	21.45	20.98	17.18	19.65	18.06	15.03	18.61	19.27
28	21.80	23.04	22.27	21.81	21.45	20.98	16.98	19.59	18.07	15.03	18.61	19.25
29	21.85	23.04	22.28	21.85	21.45	20.99	17.02	19.53	18.09	15.19	18.44	19.31
30	21.91	23.04	22.30	21.88	---	21.00	17.15	19.50	18.18	15.37	18.20	19.31
31	21.96	---	22.29	22.00	---	21.00	---	19.50	---	15.53	17.95	---
MAX	21.96	23.04	23.00	22.28	22.46	21.75	20.97	19.96	19.45	19.19	18.61	19.36

CAL YR 1991 LOW 23.04  
WTR YR 1992 LOW 23.04

## HAMILTON COUNTY--Continued

391748084393800. Local number, H-19.

LOCATION.--Lat 39°17'48", long 84°39'38", Hydrologic Unit 05080002, on left bank of Great Miami River 1.3 mi southwest of Venice.

Owner: Southwest Ohio Water Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Collector-type industrial supply water-table well, diameter 20 ft, depth 144 ft horizontal intakes at 95-100 ft.

PERIOD OF RECORD.--1964 to current year.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)
NOV 26...	1015	780	7.7	14.0	17.0	10	82	29	39	4.1	292
APR 16...	1045	811	7.6	25.5	17.5	12	87	30	37	4.1	310
AUG 13...	1000	754	7.7	23.5	17.5	<10	81	28	31	3.9	293

DATE	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
NOV 26...	238	83	65	0.40	<0.10	493	0.010	0.780	<1	<1
APR 16...	254	80	63	0.30	8.7	468	0.020	1.50	--	--
AUG 13...	239	80	58	0.30	8.3	428	0.030	3.10	<1	<1

DATE	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 26...	<1	--	2	22	4	<1	310	50	24	1.3
APR 16...	--	--	--	360	--	--	210	--	--	3.1
AUG 13...	<1	2	1	69	2	<1	250	120	120	1.4

HAMILTON COUNTY-Continued

391817084393300. Local number, H-4.

LOCATION.--Lat 39°18'17", long 84°39'33", Hydrologic Unit 05080002, 0.7 mi southwest of Ross.

Owner: Southwestern Ohio Water Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 541.57 ft above National Geodetic Vertical Datum of 1929. (Levels Miami Conservancy District.)

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

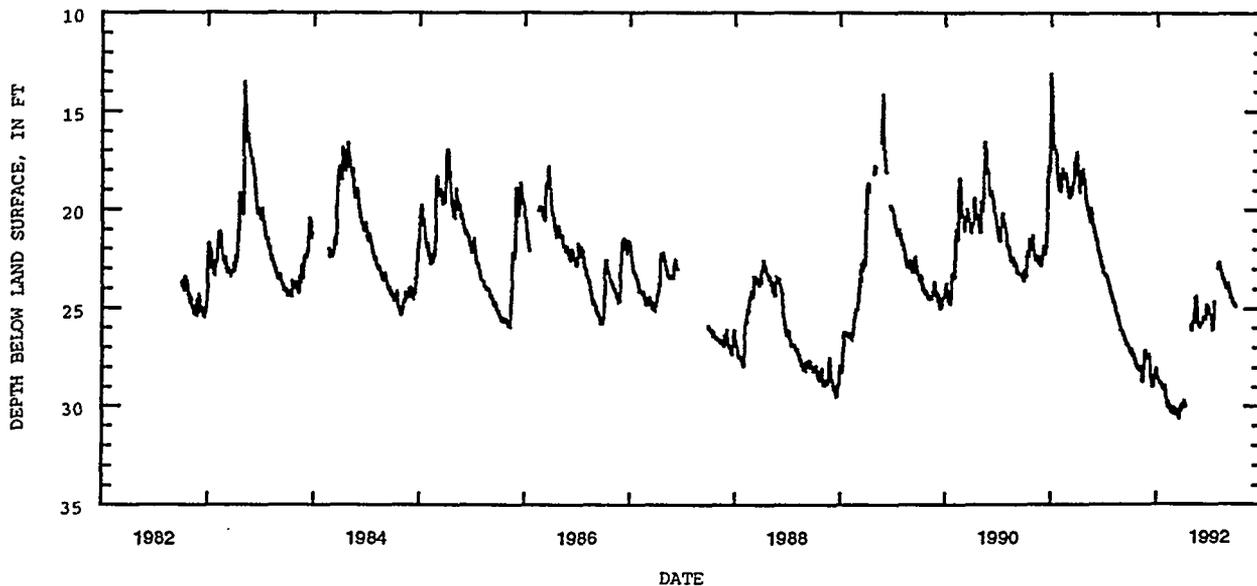
PERIOD OF RECORD.--December 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.16 ft below land-surface datum, Nov. 20, 1971;  
minimum daily low, 11.60 ft below land-surface datum, June 16, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.06	28.09	27.50	28.00	29.00	30.05	29.95	25.87	25.83	25.09	22.83	23.78
2	27.09	28.10	27.50	28.02	28.85	29.98	30.00	26.05	25.82	25.14	22.74	23.76
3	27.13	27.98	27.45	28.25	28.97	30.10	30.05	26.12	25.79	25.21	22.66	23.83
4	27.18	28.00	27.43	28.40	29.22	30.20	30.05	26.04	25.75	25.26	22.68	23.89
5	27.20	28.08	27.40	28.43	29.43	30.28	29.90	25.84	25.75	25.28	22.75	23.95
6	27.12	28.13	27.41	28.46	29.60	30.31	29.65	25.76	25.74	25.30	22.82	24.01
7	27.04	28.15	27.45	28.52	29.78	30.30	29.75	25.73	25.70	25.34	22.88	24.09
8	27.17	28.15	27.48	28.59	29.90	30.13	29.85	25.70	25.69	25.37	22.97	24.14
9	27.25	27.98	27.50	28.66	29.99	30.13	29.93	25.70	25.59	25.49	23.04	24.18
10	27.32	27.92	27.73	28.73	30.00	30.25	29.96	25.65	25.52	25.60	23.08	24.25
11	27.37	27.90	28.04	28.78	29.80	30.32	29.93	25.65	25.48	25.75	23.12	24.33
12	27.43	28.13	28.21	28.75	29.72	30.37	---	25.67	25.45	25.89	23.18	24.40
13	27.43	28.35	28.39	28.72	29.90	30.41	---	25.39	25.45	26.00	23.27	24.43
14	27.27	28.58	28.48	28.78	30.05	30.43	---	24.85	25.45	26.03	23.35	24.43
15	27.35	28.72	28.54	28.78	30.05	30.38	---	24.45	25.48	26.00	23.42	24.43
16	27.43	28.71	28.61	28.74	30.00	30.38	---	24.42	25.51	25.78	23.45	24.42
17	27.48	28.44	28.69	28.76	29.90	30.45	---	24.54	25.54	25.28	23.47	24.43
18	27.51	28.19	28.84	28.80	30.05	30.51	---	24.53	25.54	24.65	23.50	24.48
19	27.57	27.96	28.92	28.85	30.15	30.56	---	24.75	25.51	---	23.56	24.59
20	27.64	27.83	28.99	28.87	30.20	30.56	---	25.13	25.40	---	23.60	24.67
21	27.69	27.60	29.01	28.92	30.24	30.50	---	25.36	25.25	---	23.62	24.70
22	27.73	27.28	28.94	28.95	30.25	30.25	---	25.56	24.94	---	23.64	24.70
23	27.77	27.10	28.93	28.99	30.07	29.99	---	25.70	24.80	---	23.69	24.70
24	27.81	27.23	28.79	29.04	30.03	30.04	---	25.73	24.83	---	23.76	24.69
25	27.84	27.33	28.60	29.08	30.12	30.11	---	25.74	24.86	---	23.82	24.73
26	27.87	27.38	28.44	29.04	30.20	30.15	---	25.79	24.89	---	23.89	24.79
27	27.92	27.40	28.30	29.07	30.27	30.19	---	25.84	24.94	---	23.93	24.82
28	27.97	27.48	28.20	29.10	30.32	30.15	---	25.87	24.98	---	23.93	24.81
29	28.00	27.50	28.12	29.12	30.30	29.99	---	25.88	24.99	---	23.93	24.81
30	28.03	27.49	28.07	29.14	---	29.85	---	25.77	25.04	22.93	23.93	24.87
31	28.05	---	28.03	29.15	---	29.90	---	25.82	---	22.89	23.84	---
MAX	28.05	28.72	29.01	29.15	30.32	30.56	30.05	26.12	25.83	26.03	23.93	24.87

CAL YR 1991 LOW 29.01  
WTR YR 1992 LOW 30.56



GROUND-WATER RECORDS

HARDIN COUNTY

404218083503700. Local number, HN-1.

LOCATION.--Lat 40°42'18", long 83°50'37", Hydrologic Unit 05060001, at grain elevator in Alger.

Owner: Village of Alger.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 40 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 975 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 1.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1946 to current year.

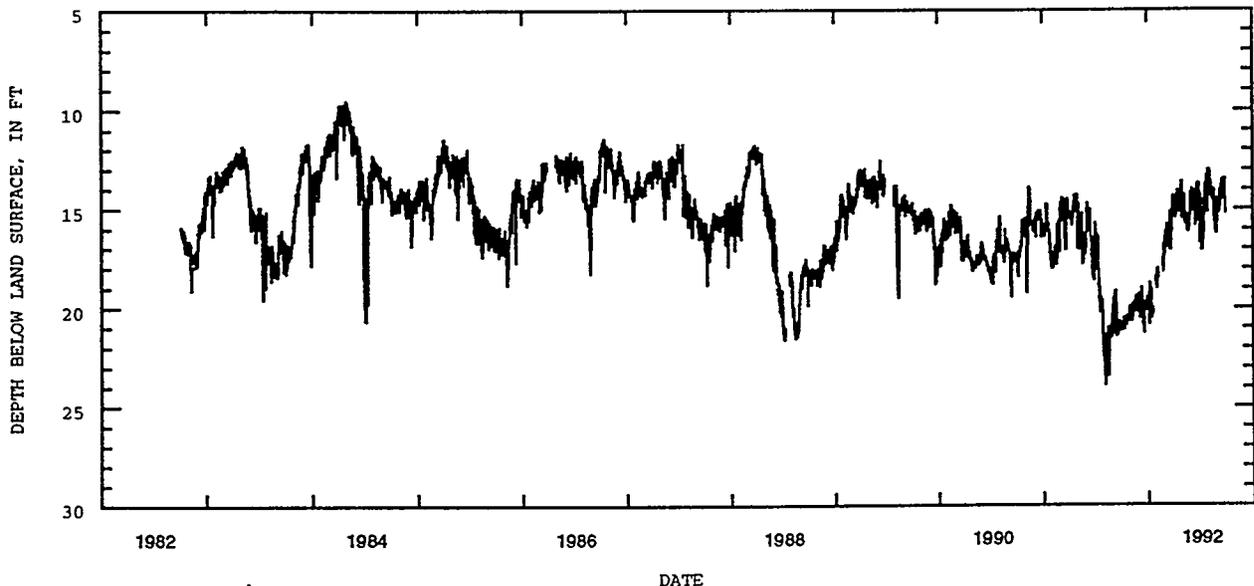
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 23.90 ft below land-surface datum, Aug. 7, 1991;

minimum daily low, 5.85 ft below land-surface datum, July 1, 1946.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.85	19.95	19.70	20.00	18.90	17.20	14.35	13.80	14.20	15.40	13.05	14.50
2	21.20	20.70	19.70	19.80	18.90	17.00	14.40	15.40	14.15	15.80	13.30	15.00
3	20.85	20.55	19.30	19.70	18.40	17.20	14.35	15.50	15.15	16.70	13.45	14.85
4	21.00	20.20	20.00	19.50	19.05	16.75	15.00	14.45	14.90	14.30	13.10	15.00
5	20.90	20.25	20.55	19.60	18.30	16.65	14.50	14.25	14.00	15.05	13.60	15.20
6	20.95	20.15	19.95	20.65	18.35	16.15	14.60	14.65	14.20	15.60	13.75	15.15
7	21.10	20.50	20.10	20.85	18.00	16.95	14.85	14.45	14.15	15.90	14.30	14.80
8	21.00	20.65	20.20	19.70	18.45	16.40	14.70	14.60	14.40	17.10	13.70	14.80
9	21.05	20.25	20.05	18.75	---	16.50	15.45	14.30	14.55	17.00	13.60	14.10
10	20.85	20.45	19.90	19.15	---	15.80	15.20	14.70	15.05	16.90	14.50	14.10
11	20.50	20.25	19.60	19.40	---	16.30	14.40	15.65	15.05	17.05	14.30	14.90
12	20.65	19.90	18.95	19.40	---	16.10	14.85	15.70	15.10	16.00	14.00	14.25
13	21.10	19.85	19.25	19.15	---	16.40	14.85	15.30	15.10	16.25	14.00	14.20
14	---	20.00	19.70	19.05	---	16.10	14.60	15.75	15.05	15.75	14.10	13.90
15	---	19.80	20.00	19.90	---	16.50	15.00	15.40	15.15	15.80	14.20	14.00
16	---	20.20	20.65	20.10	---	16.60	14.25	15.35	15.20	16.20	14.55	13.75
17	---	20.15	20.70	20.55	---	16.35	14.70	15.45	15.85	14.50	14.25	13.70
18	---	19.70	21.00	20.05	---	16.95	14.15	15.30	14.45	14.90	14.60	13.50
19	---	20.00	---	20.25	---	16.10	14.20	15.70	14.25	14.15	14.00	13.50
20	20.85	19.80	21.25	20.35	---	17.05	14.40	15.80	14.25	14.50	14.65	14.30
21	20.50	19.85	20.40	20.00	---	15.55	14.20	16.00	14.20	14.30	15.35	14.55
22	20.40	19.85	19.75	---	---	15.15	14.60	16.15	14.10	13.85	15.40	14.00
23	20.55	19.40	19.65	---	---	17.10	14.60	15.90	14.05	13.70	15.55	13.95
24	20.70	19.60	19.95	---	---	17.05	15.20	16.05	13.85	13.95	15.80	14.15
25	20.60	19.90	19.90	---	---	16.10	14.40	15.80	13.75	14.00	15.95	14.10
26	20.40	20.25	20.15	---	---	16.10	14.95	15.80	13.75	13.70	16.25	14.00
27	20.50	19.80	19.75	---	18.15	15.30	14.20	15.30	13.75	13.30	15.70	13.45
28	20.50	20.10	19.90	---	16.75	15.20	14.05	15.40	13.70	15.20	15.35	13.75
29	20.40	19.85	19.45	---	17.15	15.20	14.10	15.20	14.70	14.05	16.25	15.25
30	20.50	19.40	19.50	18.50	---	14.90	13.65	14.40	15.75	13.10	15.10	14.50
31	20.10	---	20.10	18.80	---	14.50	---	14.40	---	13.05	---	---
MAX	21.20	20.70	21.25	20.85	19.05	17.20	15.45	16.15	15.85	17.10	16.25	15.25

CAL YR 1991 LOW 23.90  
WTR YR 1992 LOW 21.25



## HOCKING COUNTY

393200082235300. Local number, HK-1.

LOCATION.--Lat 39°32'00", long 82°23'53", Hydrologic Unit 05060002, at railroad yards southeast edge of Logan.

Owner: Chessie System.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 88 ft, cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 710 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of gage platform 4.90 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1962 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.35 ft below land-surface datum, Dec. 21, 22, 1967;  
minimum daily low, 9.11 ft below land-surface datum, Apr. 22, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 24, 1991	19.67	Apr. 21, 1992	17.52

## GROUND-WATER RECORDS

## KNOX COUNTY

402344082300700. Local number, K-1.

LOCATION.--Lat 40°23'44", long 82°30'07", Hydrologic Unit 05040003, in city park, Mt. Vernon.

Owner: Mt. Vernon Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth 90 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1,000 ft above National Geodetic Vertical Datum of 1929, from topographic map.

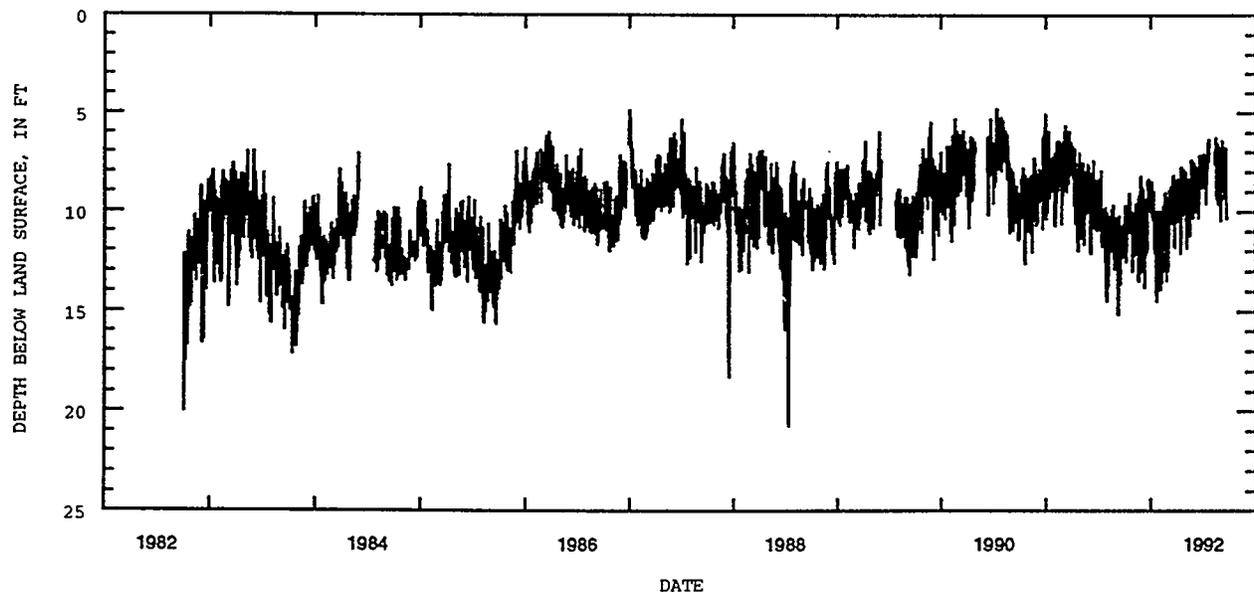
Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.-- April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.74 ft below land-surface datum, July 14, 1988;  
minimum daily low, 1.43 ft below land-surface datum, Apr. 29, 1950.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.26	10.85	8.70	9.39	9.93	9.33	10.02	10.44	8.33	8.67	---	7.56
2	12.22	10.41	9.91	9.58	10.07	9.86	8.89	9.36	9.95	8.79	---	7.70
3	12.33	10.05	8.83	9.98	10.81	9.94	9.89	7.97	9.09	7.56	---	10.47
4	10.73	11.78	9.97	10.03	12.91	12.97	9.18	10.15	8.70	7.22	---	8.50
5	10.84	11.96	10.19	8.49	13.71	12.64	8.34	10.32	9.51	7.07	---	8.02
6	9.69	12.22	10.19	10.08	13.95	10.35	8.75	11.38	8.73	8.28	---	6.40
7	10.62	11.68	9.52	10.31	12.45	9.79	10.54	11.87	7.69	8.34	---	8.62
8	12.37	11.43	8.86	10.18	11.01	8.92	9.82	10.77	8.27	8.60	---	7.65
9	12.56	10.70	9.94	9.98	10.13	9.50	9.30	9.42	8.49	8.40	---	7.88
10	11.25	9.62	13.03	10.40	12.89	9.37	8.96	8.31	10.03	8.78	---	8.98
11	11.03	10.39	11.92	9.62	13.58	9.57	9.17	8.71	9.17	8.78	---	8.18
12	9.88	10.36	13.04	8.94	12.08	9.67	9.01	8.79	9.88	7.47	---	7.96
13	9.70	10.13	13.80	10.27	10.69	9.65	8.61	8.93	8.98	9.60	6.98	6.74
14	10.44	12.02	10.79	10.58	10.73	9.58	10.04	8.95	8.11	8.94	7.61	8.90
15	10.62	11.96	9.37	11.65	10.60	8.75	10.60	8.94	9.53	8.27	6.51	9.34
16	10.79	11.13	10.33	12.10	9.84	9.44	12.13	8.91	10.33	8.47	6.24	8.64
17	10.72	9.58	10.34	11.51	9.73	9.32	11.17	8.91	8.90	7.33	7.27	9.10
18	10.78	10.33	10.95	9.95	9.98	10.62	7.74	11.23	9.61	7.66	9.16	9.31
19	9.56	11.58	12.05	10.34	10.13	10.56	8.04	9.28	8.95	6.53	7.99	8.45
20	9.06	13.28	11.78	11.72	10.13	10.54	9.54	8.70	8.76	7.35	7.74	6.76
21	9.98	13.47	10.19	12.35	11.18	9.13	9.75	8.77	7.12	7.11	9.35	9.09
22	10.35	12.58	8.99	13.84	10.20	8.15	9.72	9.94	8.50	7.45	7.33	8.84
23	10.49	9.53	9.65	14.43	9.04	10.08	9.87	8.70	8.72	6.38	6.57	10.34
24	10.57	9.17	8.58	14.49	9.62	10.15	9.01	7.36	8.80	---	9.63	---
25	11.12	11.16	8.60	13.49	12.60	11.69	8.60	7.88	8.70	---	8.09	---
26	9.96	11.49	8.35	9.94	13.48	11.73	7.87	9.48	8.79	---	8.26	---
27	10.01	13.05	9.66	11.76	13.05	10.50	9.45	9.40	8.04	---	8.08	---
28	10.94	10.93	9.91	10.52	12.14	9.36	9.96	10.21	7.43	---	7.17	---
29	11.00	8.20	8.78	10.42	10.24	8.66	10.00	10.33	8.42	---	6.73	---
30	10.63	9.26	9.44	10.55	---	8.73	10.23	8.91	8.45	---	6.97	---
31	13.00	---	9.76	10.66	---	9.98	---	7.51	---	---	7.43	---
MAX	13.00	13.47	13.80	14.49	13.95	12.97	12.13	11.87	10.33	9.60	9.63	10.47

CAL YR 1991 LOW 15.17  
WTR YR 1992 LOW 14.49

## MADISON COUNTY

395301083272200. Local number, M-2.

LOCATION.--Lat 39°53'01", long 83°27'22", Hydrologic Unit 05060002, U.S. 42 and Westmore Dr., London.

Owner: State of Ohio

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 350 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1035 ft above National Geodetic Vertical Datum of 1929, from topographic map.

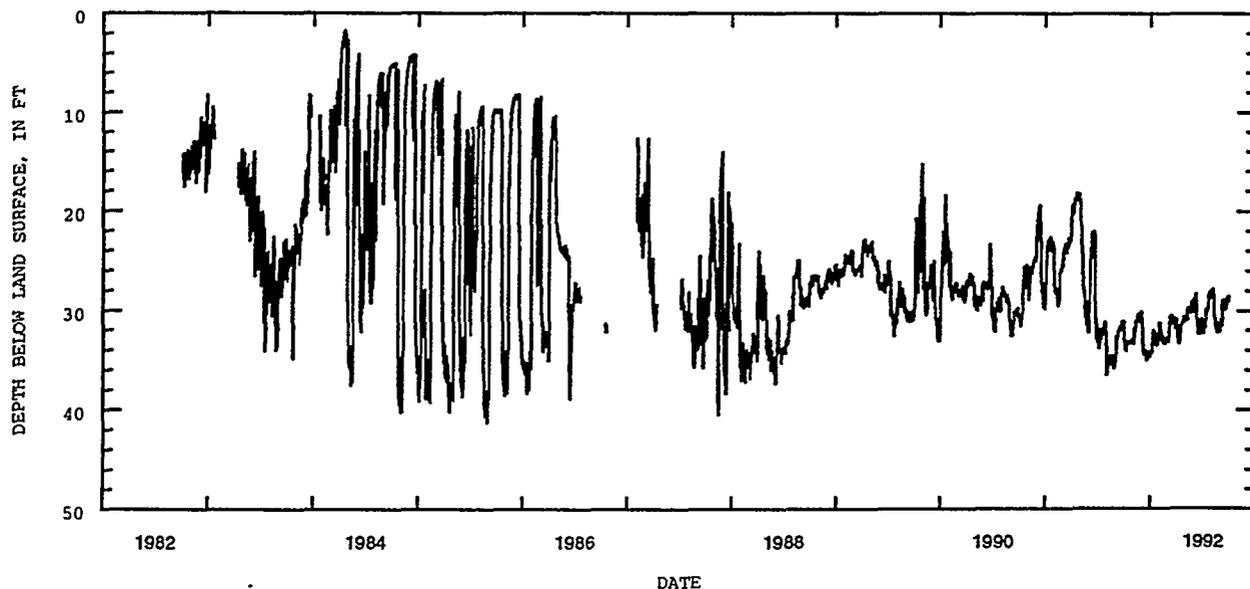
Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 41.29 ft below land-surface datum, Aug. 29, 1985;  
minimum daily low, 0.55 ft above land-surface, Apr. 13, 1980.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.09	33.16	30.30	34.73	31.93	32.75	31.00	30.73	29.20	32.35	28.73	31.07
2	32.01	33.28	30.22	34.19	31.74	32.62	31.07	30.64	28.83	32.33	28.41	31.13
3	32.94	33.13	30.06	34.13	31.34	32.99	31.27	30.88	29.05	32.20	28.03	31.44
4	33.00	33.39	31.03	34.22	31.32	33.21	32.14	30.84	29.13	32.14	27.94	31.60
5	32.93	33.37	32.47	34.24	31.72	33.01	32.72	30.67	29.21	31.54	28.37	31.19
6	33.56	32.26	33.19	34.22	32.19	32.54	32.90	30.69	29.20	31.10	28.50	30.53
7	33.89	32.04	33.66	34.27	32.28	31.95	33.00	30.88	28.64	31.77	28.17	29.80
8	33.90	32.09	33.95	33.80	32.41	31.57	33.23	31.02	28.26	31.65	29.08	29.02
9	33.68	32.04	34.31	32.81	32.59	31.41	33.28	30.87	29.81	31.11	30.32	29.35
10	33.51	31.40	34.39	32.30	33.00	30.94	33.31	30.30	30.86	30.72	30.61	29.54
11	33.32	31.09	34.06	31.97	32.94	30.79	33.27	29.75	31.05	30.42	30.45	29.57
12	33.27	31.45	33.94	32.34	32.73	30.72	32.93	29.77	30.80	30.55	30.72	29.45
13	33.37	31.55	34.42	32.26	32.59	30.65	32.53	30.00	31.33	30.28	30.94	29.12
14	33.31	31.28	34.43	32.03	33.15	30.58	32.48	30.04	31.82	30.04	31.36	29.06
15	33.12	31.14	34.27	32.04	33.15	30.55	32.20	29.71	32.20	29.81	31.73	28.98
16	33.21	31.00	34.18	32.52	33.22	30.55	31.64	30.04	32.13	29.90	31.84	28.97
17	33.22	31.00	34.20	32.66	33.23	30.53	31.26	30.14	32.11	30.06	31.68	29.12
18	33.22	30.79	34.47	32.49	32.97	30.77	31.23	29.80	32.44	30.02	31.47	29.72
19	33.31	30.63	34.96	32.43	33.18	31.12	31.37	29.79	32.22	29.80	32.10	29.81
20	33.30	30.61	34.98	32.74	33.35	31.31	31.30	29.62	31.51	29.46	32.22	29.71
21	33.21	30.79	34.40	33.48	33.33	31.45	31.13	29.83	31.61	29.22	32.09	29.10
22	33.18	30.84	34.12	33.55	33.25	31.33	31.33	30.26	31.62	29.13	31.98	29.35
23	33.19	30.75	34.31	33.05	33.08	31.41	31.17	30.27	31.46	28.79	31.87	29.48
24	33.22	30.62	34.66	33.11	32.96	31.41	31.19	30.10	30.99	28.29	31.17	29.32
25	33.19	30.81	34.77	33.27	32.91	31.28	31.20	29.97	30.93	28.41	31.63	29.04
26	33.20	31.07	34.65	33.43	32.78	31.10	30.77	29.31	31.08	28.34	32.12	28.83
27	33.15	31.13	34.36	33.37	32.99	31.77	30.58	29.38	31.24	28.29	32.16	28.60
28	33.06	31.19	34.18	33.24	33.10	31.77	30.88	29.89	31.29	28.22	31.95	28.54
29	33.27	30.85	34.50	32.84	32.78	31.40	30.95	30.21	31.27	28.46	31.54	28.68
30	33.28	30.52	34.54	32.33	---	30.94	30.86	30.22	31.92	28.52	31.36	29.08
31	33.21	---	34.70	32.14	---	30.93	---	29.64	---	28.71	31.46	---
MAX	33.90	33.39	34.98	34.73	33.35	33.21	33.31	31.02	32.44	32.35	32.22	31.60

CAL YR 1991 LOW 36.50  
WTR YR 1992 LOW 34.98

GROUND-WATER RECORDS

MADISON COUNTY--Continued

395352083292100. Local number, M-5.

LOCATION.--Lat 39°53'52", long 83°29'21", Hydrologic Unit 05060002, at London Correctional Institute near London Ohio.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth 55 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1,090 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

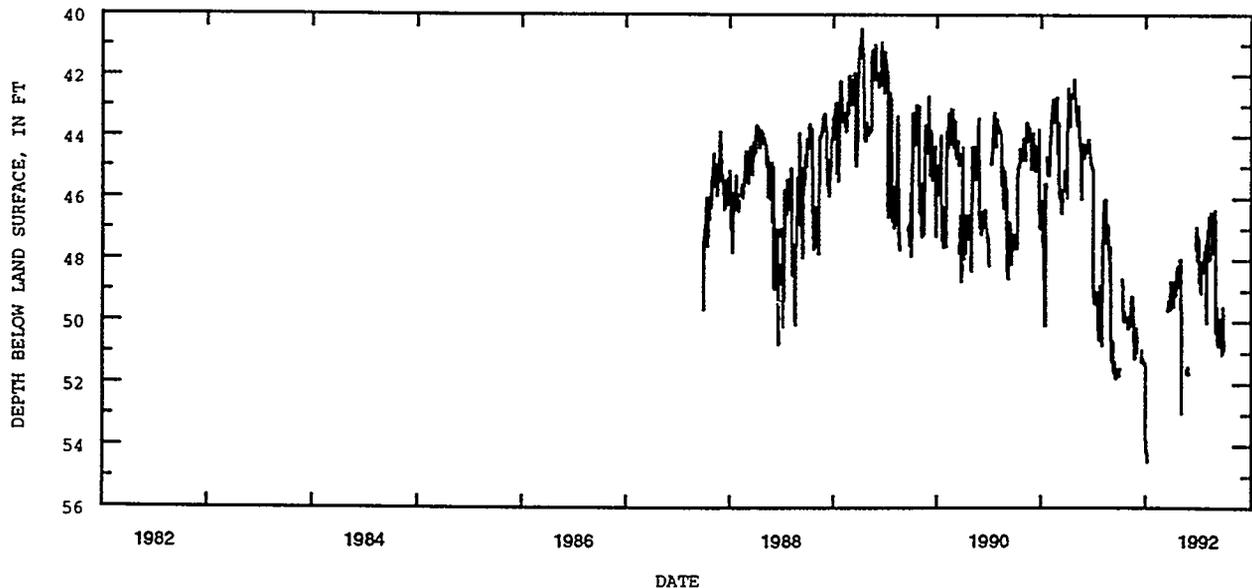
PERIOD OF RECORD.--October 1, 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.65 ft below land-surface datum, Jan. 17, 1992;  
minimum daily low, 40.47 ft below land-surface datum, Apr. 11, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.60	49.88	50.32	51.41	---	---	49.42	48.03	---	48.05	47.85	50.30
2	51.75	50.23	50.18	53.73	---	---	49.23	47.97	---	47.61	47.92	50.37
3	51.53	49.82	50.70	53.93	---	---	49.12	48.00	---	47.34	47.64	49.87
4	51.52	50.05	50.99	54.13	---	---	48.91	48.00	---	47.34	47.03	49.51
5	---	50.12	---	54.24	---	---	48.91	51.20	---	47.50	47.40	49.87
6	---	50.18	---	54.24	---	---	48.90	52.95	---	48.55	47.60	50.33
7	---	50.18	---	54.24	---	---	49.44	---	---	48.72	47.40	50.63
8	---	50.09	---	54.49	---	---	49.53	---	---	48.55	46.60	50.74
9	---	50.11	---	---	---	---	49.34	---	---	48.33	46.68	50.77
10	---	50.10	---	---	---	---	48.90	---	---	48.70	47.45	49.93
11	---	50.11	---	---	---	---	48.68	---	---	49.01	47.81	49.93
12	---	49.84	---	---	---	---	48.77	---	---	49.07	47.97	49.85
13	---	49.62	---	---	---	---	49.00	---	---	48.75	47.95	50.10
14	48.62	49.38	---	---	---	---	49.12	---	---	48.50	47.10	50.62
15	49.00	49.23	---	---	---	---	49.12	---	---	48.33	46.44	50.79
16	49.57	49.20	---	---	---	---	49.11	---	---	48.32	46.60	50.62
17	49.79	49.20	---	54.65	---	---	49.09	---	---	48.20	47.37	50.26
18	49.95	49.32	50.91	---	---	---	49.06	---	---	48.19	47.63	50.20
19	50.00	49.70	51.27	---	---	---	48.73	---	---	48.17	47.67	50.15
20	49.65	49.87	51.27	---	---	49.62	48.45	---	---	48.09	47.38	50.15
21	49.75	49.99	51.21	---	---	49.52	48.27	51.57	---	47.87	47.15	49.87
22	49.90	50.05	51.20	---	---	49.30	48.30	51.67	---	47.88	46.73	50.66
23	49.93	50.65	51.16	---	---	49.40	48.30	51.68	---	48.10	47.26	50.89
24	49.93	50.35	51.22	---	---	49.53	48.23	51.55	---	48.31	47.66	51.00
25	49.93	51.18	51.30	---	---	49.52	48.22	---	47.64	47.70	47.79	50.98
26	49.88	51.15	51.31	---	---	49.47	---	---	47.31	48.16	47.63	49.50
27	49.87	51.10	51.34	---	---	49.52	---	51.45	46.93	48.19	46.60	49.95
28	49.87	50.43	51.34	---	---	49.55	---	51.65	46.93	47.50	46.36	50.52
29	50.03	50.38	51.30	---	---	49.51	---	51.67	47.50	49.00	46.44	50.73
30	49.99	50.33	51.38	---	---	48.70	48.03	---	47.94	50.05	46.90	50.85
31	49.90	---	51.41	---	---	49.20	---	---	---	47.80	47.44	---
MAX	51.75	51.18	51.41	54.65	---	49.62	49.53	52.95	47.94	50.05	47.97	51.00

CAL YR 1991 LOW 51.84  
WTR YR 1992 LOW 54.65



## MADISON COUNTY--Continued.

395357083304400. Local number, M-4.

LOCATION.--Lat 39°53'57", long 83°30'44" Hydrologic Unit 05060002, 3.5 mi northwest of London, Ohio.

Owner.--State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 10 in., depth 49 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1,112 ft above National Geodetic Vertical Datum of 1929, from topographic map.

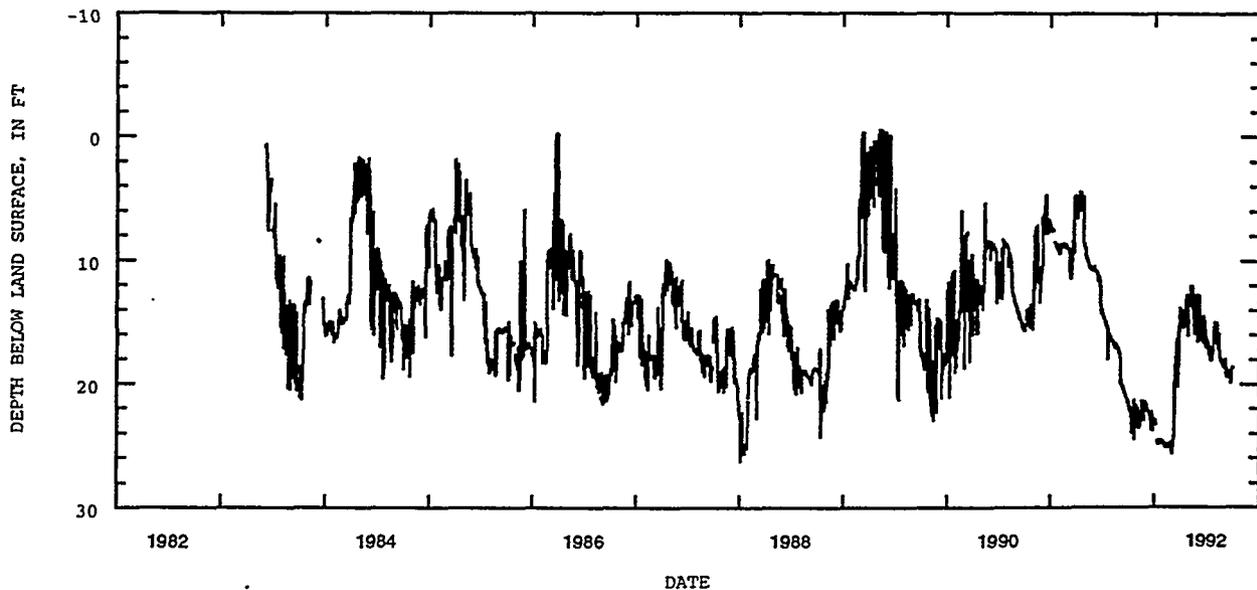
Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 26.30 ft below land-surface datum, Jan. 7, 1988;  
minimum daily low 0.50 ft above land-surface datum, May 13-14, 16, 1989.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.50	21.85	21.60	22.95	24.70	24.95	14.65	13.10	16.60	16.65	15.05	18.15
2	21.55	21.90	21.65	22.95	24.80	24.85	14.40	13.20	13.95	16.50	15.00	17.95
3	21.65	21.95	21.65	23.15	24.80	25.25	14.25	13.30	13.10	16.50	14.95	17.90
4	21.80	21.95	21.80	22.85	24.80	25.65	13.95	13.40	12.90	16.60	15.05	18.25
5	21.90	23.55	21.80	22.95	24.85	25.15	14.00	13.40	12.85	16.60	15.20	18.40
6	22.00	22.70	21.90	23.00	24.85	25.10	13.95	13.10	12.90	16.75	15.20	18.50
7	22.05	23.60	21.95	23.35	24.80	25.10	14.80	13.10	12.90	16.80	15.90	18.75
8	22.15	22.35	22.00	23.15	24.85	24.65	15.25	13.00	16.40	16.80	16.70	19.10
9	22.20	22.40	22.15	---	24.95	24.45	15.25	12.80	16.25	16.90	17.00	19.15
10	22.25	22.45	22.20	---	25.05	24.40	15.30	12.00	13.90	17.65	17.10	19.35
11	22.25	22.55	22.30	24.70	25.05	24.10	15.30	12.10	15.30	17.30	17.25	19.45
12	22.15	22.60	22.30	24.65	25.10	21.50	15.50	12.10	16.05	17.10	16.30	19.10
13	22.20	23.50	22.40	24.55	25.10	20.65	15.50	12.30	15.60	17.10	15.85	18.95
14	23.25	22.75	22.50	24.70	25.05	20.05	15.30	13.85	15.70	17.00	17.05	18.90
15	23.95	23.25	22.50	24.85	25.05	19.45	15.20	12.65	15.80	17.00	17.40	18.95
16	23.20	21.70	22.50	24.85	25.05	19.10	14.80	12.75	16.20	18.00	17.60	18.90
17	22.35	22.15	22.35	24.85	25.05	18.75	14.70	15.40	16.45	18.05	17.75	19.00
18	21.60	21.40	22.35	24.85	25.00	18.25	14.50	13.90	16.55	18.00	17.85	19.10
19	21.45	21.40	22.25	24.80	24.95	18.10	14.20	12.80	16.40	17.90	17.95	19.15
20	21.40	22.10	23.70	24.80	25.00	17.55	13.80	15.95	16.15	17.80	18.00	19.15
21	21.40	22.20	22.40	24.75	25.05	16.90	14.90	14.40	14.75	17.70	18.10	19.15
22	22.65	22.85	22.35	24.60	25.00	16.45	14.35	12.95	14.50	17.50	18.10	19.30
23	24.40	21.35	22.40	24.50	24.95	16.30	15.35	12.85	14.40	17.35	18.20	19.70
24	24.45	21.35	22.50	24.65	24.90	16.95	13.45	12.85	14.45	17.30	18.25	19.85
25	22.60	21.75	22.45	24.65	24.90	19.90	12.85	12.90	15.35	17.00	18.30	19.90
26	21.75	22.95	23.70	24.70	24.85	20.25	12.75	12.90	15.55	15.90	18.35	19.50
27	21.70	21.40	23.80	24.65	24.90	16.65	16.05	12.95	15.75	15.45	18.40	18.80
28	21.70	21.45	22.75	24.65	24.90	15.95	16.10	13.00	16.80	15.20	18.35	18.70
29	22.70	21.50	22.85	24.65	24.95	15.55	14.05	13.00	17.05	15.05	18.50	18.70
30	21.75	21.50	---	24.70	---	15.20	13.10	12.95	16.20	15.00	18.50	18.65
31	21.80	---	23.10	24.60	---	14.95	---	12.90	---	15.00	18.55	---
MAX	24.45	23.60	23.80	24.85	25.10	25.65	16.10	15.95	17.05	18.05	18.55	19.90

CAL YR 1991 LOW 24.45  
WTR YR 1992 LOW 25.65

## MADISON COUNTY--Continued

395740083255700. Local number, M-3.

LOCATION.--Lat 39°57'40", long 83°25'57", Hydrologic Unit 05060002, 5.2 mi north of London.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 290 ft, cased to 145 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,020 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--November 1974 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured low, 12.01 ft below land-surface datum, Dec. 18, 1991; minimum daily low, 3.93 ft below land-surface datum, Feb. 25, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 18, 1991	11.00	Mar. 20, 1992	7.66	June 19, 1992	6.42
Dec. 18, 1991	12.01	Apr. 20, 1992	6.30	Aug. 20, 1992	6.55

## MAHONING COUNTY

410042080453800. Local number, MA-1.

LOCATION.--Lat 41°00'42", long 80°45'38", Hydrologic Unit, 05030103, in county fairgrounds at south edge of Canfield.

Owner: Canfield Water Department.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 170 ft, cased to 99.5 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,160 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter at land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Influenced by seasonal water demand at county fairgrounds.

PERIOD OF RECORD.--May 1946 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 110.75 ft below land-surface datum, Sept.18, 1946;  
minimum measured low, 29.70 ft below land-surface datum, Apr. 2, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 31, 1991	34.01	May 1, 1992	34.23

GROUND-WATER RECORDS

MARION COUNTY

403413083170500. Local number, MN-4.

LOCATION.--Lat 40°34'13", long 83°17'05", Hydrologic Unit 05060001, 1.9 mi southeast of New Bloomington.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth drilled 290 ft, present depth 286 ft, cased to 33 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 915.96 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of shelter 3.00 ft above land-surface datum.

REMARKS.--Influenced by seasonal water demand for nearby wildlife refuge.

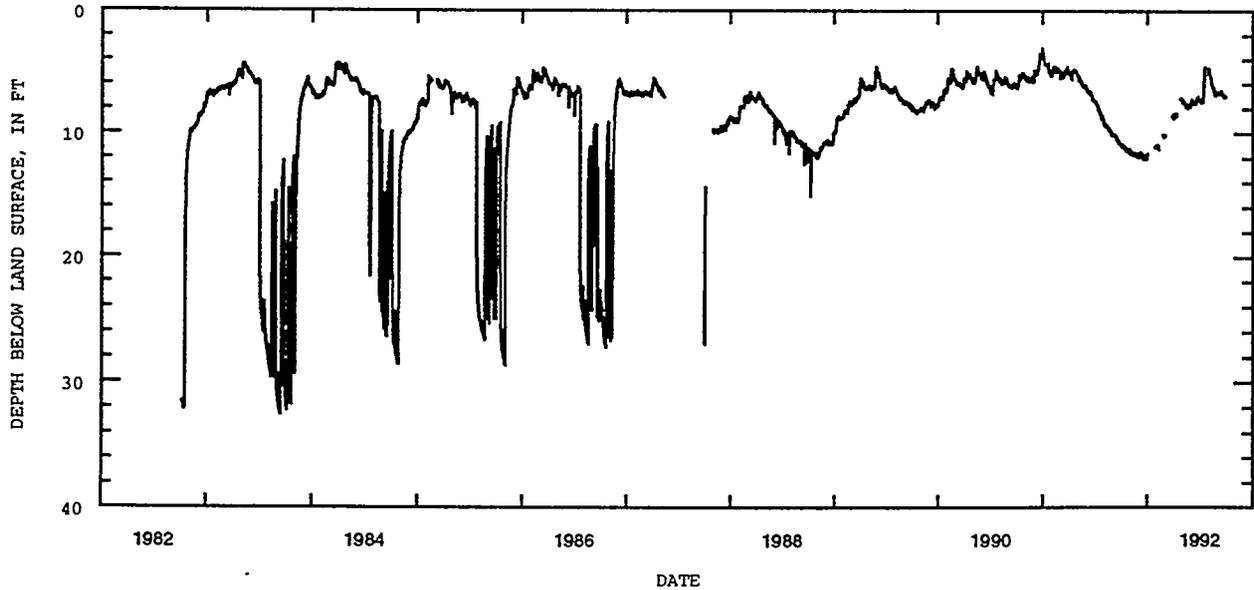
PERIOD OF RECORD.--January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.57 ft below land-surface datum, Aug. 14, 1983;  
minimum daily low, 0.61 ft below land-surface datum, Mar. 18, 1974.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.77	11.35	11.75	11.85	11.20	10.20	8.55	7.20	7.60	7.30	4.85	6.65
2	10.78	11.51	11.75	11.80	11.20	10.15	8.55	7.20	7.55	7.25	4.60	6.65
3	10.86	11.59	11.55	11.65	11.10	10.20	8.55	7.25	7.50	7.25	4.70	6.65
4	10.88	11.59	11.75	---	11.00	10.15	8.45	7.30	7.40	7.35	4.95	6.70
5	10.97	11.59	11.80	---	11.10	---	8.70	7.35	7.40	7.30	5.10	6.70
6	11.04	11.55	11.70	---	11.00	---	8.65	7.50	7.35	7.30	5.25	6.70
7	11.06	11.63	11.65	---	10.90	---	8.60	7.50	7.40	7.40	5.30	6.70
8	11.06	11.67	11.65	---	10.90	---	8.55	7.45	7.40	7.35	5.40	6.60
9	11.05	11.68	11.60	---	11.10	---	8.55	7.45	7.40	7.35	5.55	6.65
10	11.02	11.59	11.70	---	11.15	---	8.55	7.55	7.40	7.35	5.60	6.60
11	10.96	11.56	11.70	---	11.10	---	8.55	7.55	7.45	7.45	5.75	6.70
12	11.03	11.58	11.75	---	---	---	8.50	7.50	7.50	7.45	5.90	6.70
13	11.11	11.58	11.60	---	---	---	8.60	7.55	7.50	7.40	6.00	6.70
14	11.09	11.60	11.65	---	---	---	---	7.65	7.50	7.10	6.10	6.65
15	11.09	11.60	11.80	---	---	---	---	7.70	7.60	6.75	6.15	6.70
16	11.18	11.75	11.85	---	---	---	---	7.80	7.60	6.00	6.20	6.75
17	11.20	11.75	11.80	---	---	---	---	7.80	7.60	5.40	6.25	6.70
18	11.21	11.60	11.90	---	---	---	---	7.85	7.55	4.90	6.30	6.70
19	11.31	11.60	12.05	---	---	---	---	7.80	7.45	4.65	6.35	6.80
20	11.32	11.60	12.05	---	---	---	---	7.80	7.30	4.55	6.45	6.80
21	11.27	11.60	11.85	---	---	---	---	7.80	7.25	4.80	6.60	6.70
22	11.29	11.60	11.85	---	---	---	---	7.80	7.25	4.95	6.65	6.80
23	11.33	11.60	11.65	---	---	---	---	7.75	7.20	5.00	6.75	6.95
24	11.34	11.65	11.75	---	---	---	---	7.80	7.10	5.10	6.80	6.95
25	11.34	11.75	11.85	---	---	---	---	7.80	7.05	5.10	6.85	6.90
26	11.36	11.80	11.90	---	---	---	---	7.75	7.10	5.05	6.85	6.90
27	11.37	11.75	11.95	---	10.10	---	---	7.80	7.15	4.75	6.85	6.95
28	11.42	11.70	11.85	---	10.10	---	---	7.85	7.20	4.85	6.60	7.00
29	11.44	11.65	11.70	---	10.20	---	7.15	7.85	7.20	4.95	---	7.00
30	11.45	11.75	11.85	11.05	---	8.60	7.20	7.70	7.25	5.00	---	7.00
31	11.40	---	11.90	11.10	---	8.60	---	7.70	---	4.90	---	---
MAX	11.45	11.80	12.05	11.85	11.20	10.20	8.70	7.85	7.60	7.45	6.85	7.00

CAL YR 1991 LOW 12.05  
WTR YR 1992 LOW 12.05



## MARION COUNTY--Continued

403443083230400. Local number, MN-1.

LOCATION.--Lat 40°34'43, long 83°23'04", Hydrologic Unit 05060001, SR 37 at Baptist Church in LaRue.

Owner: Village of LaRue.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in., depth 100 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 930 ft above National Geodetic Vertical Datum of 1929, from topographic map.

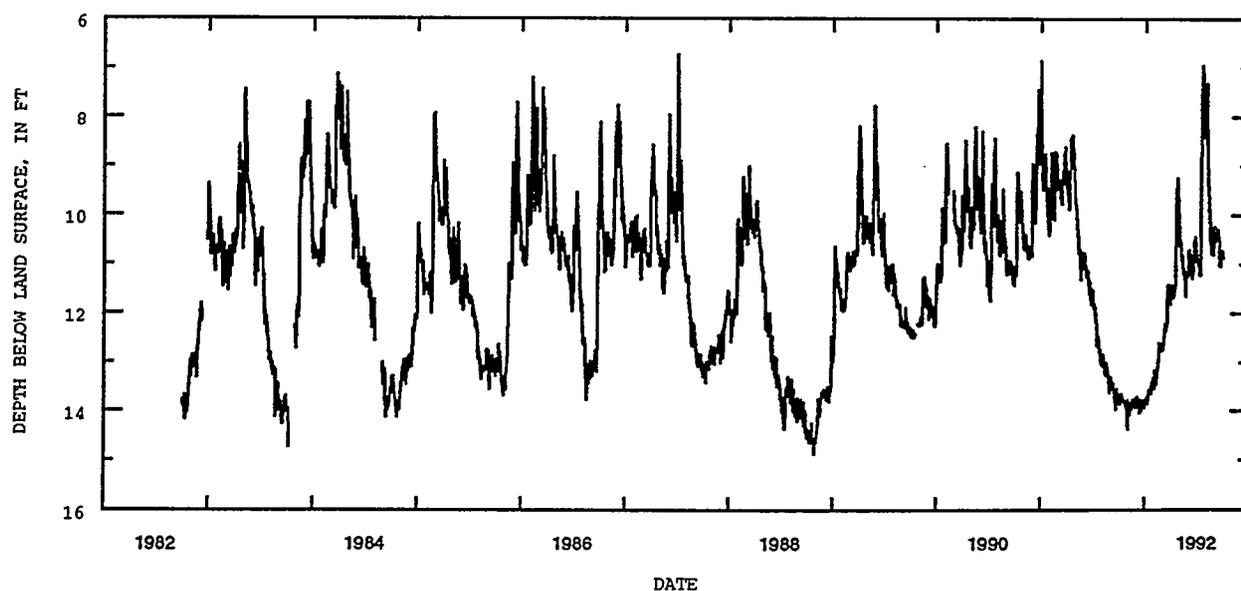
Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 14.87 ft below land-surface datum, Oct. 29, 1988;  
minimum daily low, 5.67 ft below land-surface datum, Jan. 23, 1959.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.74	13.80	13.95	13.90	13.45	12.77	11.54	10.42	10.75	10.99	7.30	10.51
2	13.76	13.95	13.86	13.80	13.38	12.72	11.53	10.58	10.76	10.98	7.64	10.47
3	13.78	14.26	13.73	13.85	13.33	12.78	11.42	10.56	10.74	11.00	7.99	10.55
4	13.72	14.37	13.89	13.75	13.52	12.75	11.44	10.62	10.78	11.02	8.50	10.50
5	13.81	14.22	13.86	13.83	13.55	12.75	11.53	10.60	10.89	11.00	8.90	10.44
6	13.86	14.00	13.70	13.80	13.40	12.70	11.55	10.75	10.90	11.03	9.20	10.43
7	13.82	14.01	13.78	13.85	13.20	12.68	11.58	10.93	10.80	11.05	9.33	10.40
8	13.87	14.00	13.76	13.85	13.22	12.60	11.68	10.88	10.92	11.09	9.48	10.42
9	13.80	13.87	13.83	13.71	13.44	12.55	11.70	10.81	10.92	11.20	9.56	10.41
10	13.65	13.85	13.88	13.80	13.46	12.42	11.64	10.82	10.93	11.20	9.65	10.41
11	13.74	13.96	13.82	13.77	13.46	12.35	11.53	11.00	11.15	11.23	9.84	10.28
12	13.65	14.07	13.75	13.87	13.44	12.30	11.65	11.05	11.23	11.23	9.88	10.32
13	13.77	13.88	13.75	13.78	13.24	12.25	11.65	11.04	11.28	10.90	10.00	10.36
14	13.75	13.95	13.82	13.75	13.23	12.21	11.50	11.10	11.30	9.29	10.08	10.44
15	13.70	13.85	14.04	13.73	13.13	12.37	11.47	11.15	11.19	8.30	10.23	10.48
16	13.75	13.93	13.97	13.56	13.13	12.35	11.50	11.23	11.21	7.64	10.44	10.56
17	13.78	13.94	13.90	13.58	13.08	12.25	11.40	11.21	11.19	7.19	10.62	10.85
18	13.75	13.91	13.97	13.62	13.06	12.29	11.12	11.20	11.11	6.94	10.60	10.91
19	13.79	13.85	14.00	13.62	12.93	12.15	10.17	11.16	10.77	7.28	10.53	11.03
20	13.80	13.84	13.98	13.64	12.82	11.95	9.48	11.45	10.68	7.71	10.73	11.03
21	13.78	13.82	13.83	13.62	12.77	11.50	9.44	11.63	10.55	7.87	10.78	10.95
22	13.78	13.85	13.86	13.62	12.66	11.44	9.32	11.65	10.62	8.07	10.78	10.84
23	13.80	13.77	13.76	13.52	12.64	11.42	9.24	11.43	10.60	8.33	10.77	10.85
24	13.82	13.77	13.81	13.64	12.66	11.51	9.37	11.31	10.58	8.41	10.75	10.82
25	13.84	13.85	13.89	13.64	12.63	11.51	9.57	11.25	10.44	8.00	10.80	10.74
26	13.84	13.90	13.90	13.46	12.70	11.74	9.73	11.20	10.52	7.50	10.83	10.72
27	13.81	13.87	13.91	13.50	12.70	11.63	9.94	11.21	10.60	7.50	10.81	10.77
28	13.85	13.87	13.91	13.45	12.63	11.67	10.02	11.23	10.68	7.95	10.52	10.82
29	13.89	13.88	13.85	13.35	12.63	11.82	10.15	11.27	10.75	8.33	10.27	10.87
30	13.96	13.88	13.91	13.42	---	11.83	10.34	11.18	10.90	8.55	10.23	10.88
31	13.81	---	13.94	13.33	---	11.55	---	10.90	---	8.10	10.30	---
MAX	13.96	14.37	14.04	13.90	13.55	12.78	11.70	11.65	11.30	11.23	10.83	11.03
CAL YR 1991	LOW 14.37											
WTR YR 1992	LOW 14.37											



GROUND-WATER RECORDS

MARION COUNTY--Continued

403601083110400. Local number, MN-2.

LOCATION.--Lat 40°36'01, long 83°11'04\*, Hydrologic Unit 05060001, water treatment plant 2 mi west of Marion.

Owner: Marion Water Department.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 67 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 910 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

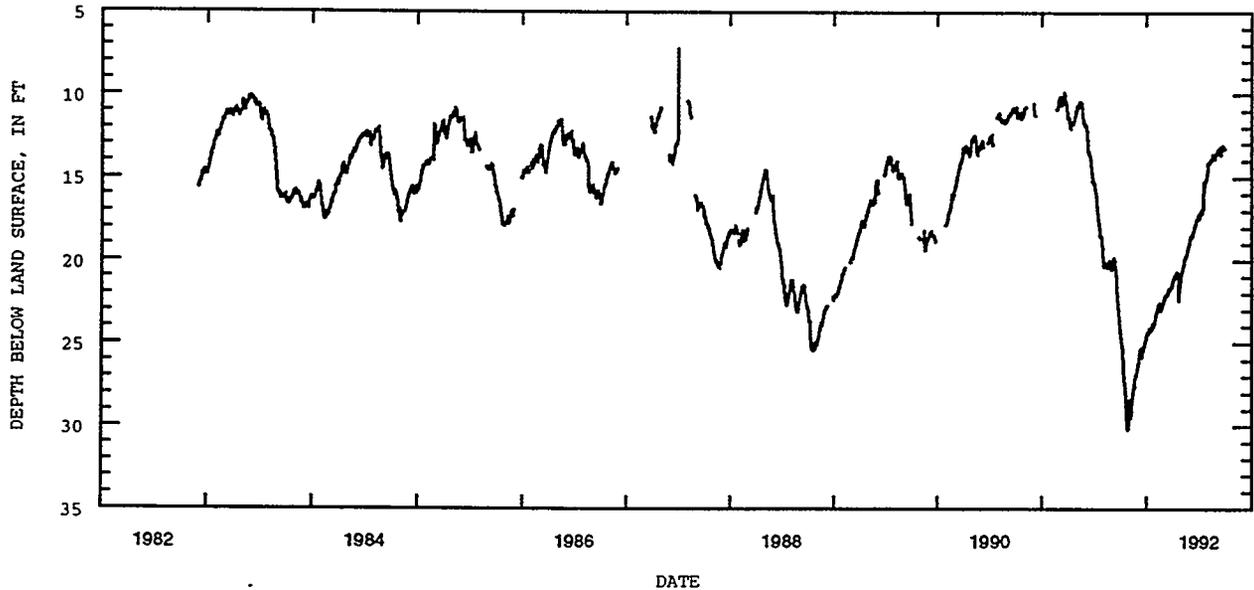
PERIOD OF RECORD.--May 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 49.50 ft below land-surface datum, Feb. 11, 1956;  
minimum daily low, 7.00 ft below land-surface datum, July 12, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.00	29.60	26.54	24.63	23.50	22.51	21.40	21.05	18.79	17.16	14.50	13.56
2	24.18	29.10	26.46	24.55	23.45	22.44	21.35	20.92	18.71	17.30	14.27	13.55
3	24.30	28.70	26.44	24.48	23.38	22.39	21.29	20.83	18.64	17.30	14.14	13.44
4	24.41	28.39	26.25	24.41	23.31	22.35	21.20	20.74	18.55	17.34	14.10	13.43
5	24.59	28.64	26.11	24.36	23.25	22.30	21.19	20.65	18.46	17.33	14.13	13.40
6	24.75	29.25	25.93	24.33	23.17	22.24	21.16	20.60	18.49	17.26	14.13	13.36
7	24.89	29.50	25.80	24.32	23.09	22.16	21.08	20.51	18.52	17.24	14.11	13.33
8	25.04	29.43	25.66	24.47	23.02	22.11	21.01	20.42	18.54	17.15	14.07	13.30
9	25.17	29.10	25.50	24.28	22.99	22.11	20.97	20.28	18.50	17.05	14.04	13.28
10	25.30	28.83	25.40	24.25	22.95	22.11	20.93	20.24	18.42	17.03	14.03	13.25
11	25.65	29.24	25.35	24.24	22.88	22.10	20.86	20.17	18.37	17.01	13.99	13.30
12	26.13	28.76	25.63	24.21	22.84	22.10	20.87	20.06	18.32	17.02	13.99	13.31
13	26.47	28.44	25.68	24.18	22.75	22.06	20.87	19.97	18.24	17.10	13.97	13.28
14	26.68	28.28	25.71	24.20	22.67	22.02	20.84	19.92	18.17	17.14	13.93	13.35
15	26.90	28.14	25.77	24.20	22.61	22.00	20.80	19.87	18.10	16.99	13.91	13.52
16	27.13	27.91	25.85	24.16	22.73	21.96	20.74	19.82	18.06	16.96	13.87	13.59
17	27.36	27.79	25.60	24.12	22.86	21.94	20.70	19.78	17.99	16.89	13.82	13.61
18	27.50	27.67	25.43	24.16	22.88	21.87	20.70	19.73	17.91	16.63	13.81	13.57
19	27.72	27.60	25.40	24.16	22.92	21.85	20.77	19.70	17.83	15.21	13.78	13.33
20	27.94	27.50	25.40	24.11	22.88	21.72	20.88	19.64	17.82	15.66	13.66	13.30
21	28.13	27.53	25.35	24.08	22.90	21.72	20.83	19.58	17.79	15.42	13.60	13.23
22	28.31	27.38	25.33	24.02	22.89	21.73	21.68	19.51	17.74	15.34	13.60	13.23
23	28.67	27.15	25.26	23.95	22.87	21.71	22.18	19.42	17.67	15.25	13.71	13.26
24	29.02	26.98	25.17	23.88	22.85	21.67	22.40	19.35	17.56	15.23	13.83	13.25
25	29.43	26.90	25.11	23.90	22.84	21.66	22.04	19.29	17.55	15.22	13.88	13.20
26	29.76	26.90	25.05	23.85	22.78	21.66	21.74	19.20	17.52	15.17	13.88	13.15
27	30.07	26.85	24.97	23.85	22.71	21.62	21.61	19.14	17.47	15.08	13.85	13.18
28	30.20	26.87	24.88	23.80	22.63	21.57	21.44	19.07	17.40	15.06	13.75	13.23
29	30.10	26.70	24.80	23.75	22.57	21.56	21.29	19.02	17.34	15.03	13.67	13.26
30	30.15	26.53	24.72	23.68	---	21.55	21.13	18.91	17.26	14.95	---	13.24
31	30.17	---	24.68	23.55	---	21.45	---	18.84	---	14.78	---	---
MAX	30.20	29.60	26.54	24.63	23.50	22.51	22.40	21.05	18.79	17.34	14.50	13.61

CAL YR 1991 LOW 30.20  
WTR YR 1992 LOW 30.20



MEDINA COUNTY

410120081431800. Local number, MD-3.

LOCATION.--Lat 41°01'20", long 81°43'18", Hydrologic Unit 05040001, Auble Street at water treatment plant in Wadsworth.

Owner: Wadsworth Water Department.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 275 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1180 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

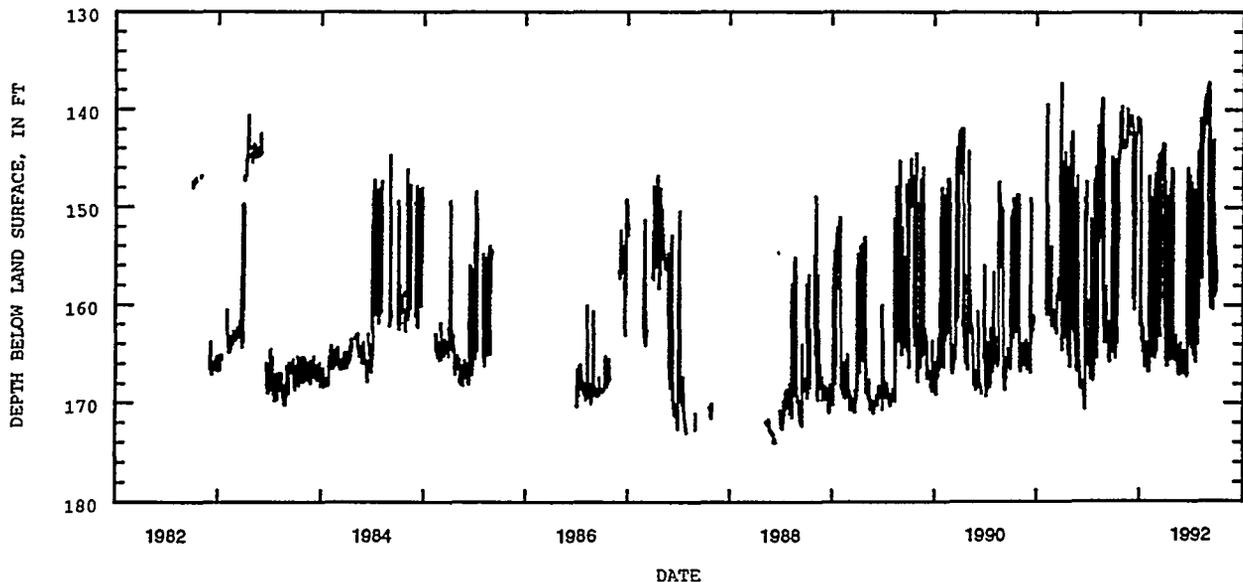
PERIOD OF RECORD.--December 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 186.74 ft below land-surface datum, Jan. 21, 1975; minimum daily low, 137.20 ft below land-surface datum, Aug. 31, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163.70	142.00	---	141.90	164.30	163.50	162.50	163.20	166.90	163.40	145.80	154.90
2	163.90	142.80	140.60	140.90	165.80	164.70	147.20	163.30	166.90	164.40	144.80	138.70
3	164.90	143.20	140.70	141.50	166.70	149.40	163.40	165.40	166.00	163.20	145.50	138.00
4	146.00	143.40	141.10	141.80	166.70	162.80	150.00	165.50	165.50	148.90	144.00	157.10
5	146.30	143.50	141.10	141.80	165.50	163.20	164.20	163.60	164.80	147.40	140.80	142.00
6	162.00	143.60	141.70	162.00	166.00	146.20	165.50	163.70	165.10	162.90	143.10	157.90
7	165.40	144.00	141.60	161.00	147.00	145.70	165.60	163.60	164.60	164.20	141.80	156.70
8	149.80	144.00	141.60	160.20	146.80	145.20	166.20	163.70	166.00	164.60	141.80	159.20
9	164.40	144.00	141.90	163.30	165.10	162.50	166.00	163.00	165.40	164.60	157.30	157.00
10	146.60	143.80	142.40	163.60	165.20	146.20	166.20	163.00	165.40	165.10	143.80	160.10
11	163.70	143.60	159.40	162.30	165.20	144.60	150.00	165.00	165.40	164.30	142.80	160.00
12	145.00	143.60	149.00	163.70	164.20	144.60	162.00	165.40	165.40	150.70	142.60	159.20
13	163.50	143.70	158.50	163.60	164.20	162.40	165.00	165.50	166.40	148.10	141.90	157.80
14	148.40	143.70	154.80	162.20	164.50	144.40	148.80	164.40	166.50	163.50	142.90	159.90
15	163.90	143.60	158.60	164.70	149.00	163.00	164.60	164.20	167.00	164.80	140.10	160.20
16	146.70	143.10	159.00	---	164.60	163.20	164.60	166.00	167.10	165.50	139.80	144.30
17	161.10	143.20	160.50	---	164.70	149.60	164.50	166.20	167.10	165.80	142.20	144.50
18	146.20	143.10	143.20	---	164.60	144.70	163.30	166.80	167.00	164.80	140.20	160.40
19	146.10	139.90	143.50	---	163.90	144.40	165.40	166.70	149.60	151.80	139.00	146.50
20	144.60	141.00	143.30	165.00	149.50	144.40	165.60	166.80	147.20	163.60	141.50	143.00
21	144.60	142.00	142.70	166.10	165.20	144.40	149.30	167.00	145.90	151.00	138.60	158.40
22	144.60	142.00	142.60	166.30	148.20	144.10	148.00	167.10	162.90	148.50	139.00	158.40
23	144.30	140.60	142.10	165.40	164.60	144.00	163.50	167.00	148.40	163.80	138.40	159.10
24	144.40	141.80	141.90	163.80	165.40	144.10	148.10	166.80	162.20	164.00	141.00	153.00
25	143.70	142.40	141.90	163.80	165.10	144.10	146.80	163.80	162.20	148.00	141.20	157.90
26	140.20	142.60	140.70	---	161.60	143.80	145.90	165.60	161.40	148.80	138.80	157.20
27	143.00	142.50	141.50	---	165.00	143.40	160.20	166.10	147.80	146.00	138.50	154.00
28	143.40	142.50	141.50	---	147.70	143.50	163.40	166.50	146.70	161.40	137.80	158.70
29	143.50	---	141.00	---	146.50	143.40	146.80	166.60	161.90	150.00	137.50	155.00
30	142.70	---	142.10	---	---	159.70	146.20	166.60	163.40	144.10	---	157.70
31	139.60	---	141.70	165.90	---	160.10	---	166.80	---	145.70	137.20	---
MAX	165.40	144.00	160.50	166.30	166.70	164.70	166.20	167.10	167.10	165.80	157.30	160.40

CAL YR 1991 LOW 170.60  
WTR YR 1992 LOW 167.10



## GROUND-WATER RECORDS

## MERCER COUNTY

402833084375200. Local number, MR-2.

LOCATION.--Lat 40°28'33", long 84°37'52", Hydrologic Unit 05120101, at AVCO Mfg. Co. building in Coldwater.

Owner: New Idea Farm Equipment Co.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 253 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 915 ft above National Geodetic Vertical Datum of 1929, from topographic map.

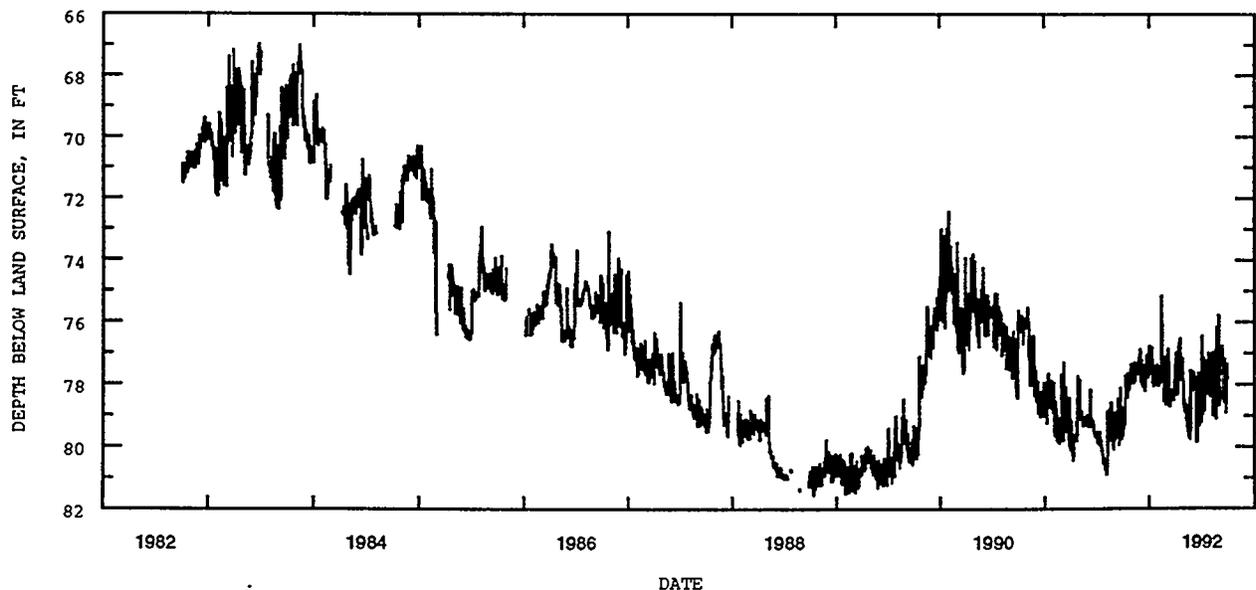
Measuring point: Top of platform 1.2 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 81.60 ft below land-surface datum, Sept. 15, 1988;  
minimum daily low, 60.13 ft below land-surface datum, Feb. 14, 1967.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79.59	77.36	77.54	77.27	77.42	77.26	78.02	78.25	78.19	79.20	78.39	78.63
2	79.49	77.84	77.23	77.06	77.40	78.62	77.39	78.29	77.68	79.23	77.20	78.68
3	79.62	77.77	76.88	76.98	77.63	78.64	78.15	78.66	77.73	78.09	77.37	76.98
4	79.62	77.76	77.88	76.77	78.06	78.61	78.27	78.66	77.63	77.11	77.48	77.27
5	79.53	77.55	77.90	76.85	77.93	78.61	77.59	78.67	77.64	76.43	77.63	77.20
6	79.33	77.82	77.80	77.15	77.67	78.25	76.98	78.83	77.72	78.86	77.37	77.06
7	79.36	77.56	77.33	77.30	78.04	78.25	78.15	78.85	77.79	78.97	77.15	76.92
8	79.29	77.88	77.21	76.93	77.90	77.64	78.35	78.60	77.82	77.64	77.08	77.17
9	79.32	77.98	77.72	77.04	77.88	76.87	78.32	78.72	77.89	77.13	76.96	77.19
10	79.26	77.37	77.97	77.19	77.99	77.10	78.18	78.80	77.76	77.27	77.15	77.28
11	78.84	77.69	78.07	76.85	77.92	77.31	78.00	78.81	77.76	77.22	78.76	77.08
12	77.99	77.74	77.70	76.86	77.88	77.34	77.18	78.81	77.84	77.25	79.00	76.98
13	78.12	77.32	78.06	76.82	77.86	78.66	77.33	79.06	79.34	78.85	77.52	76.75
14	77.78	77.39	77.99	77.61	77.67	78.67	78.29	79.20	79.57	78.42	77.57	77.00
15	77.80	77.88	77.72	77.96	77.59	78.72	77.20	79.29	79.83	77.56	77.34	77.10
16	78.01	77.92	77.63	77.68	75.15	78.54	76.87	79.41	79.83	77.86	77.37	77.22
17	78.03	77.49	77.68	77.80	76.98	78.49	76.74	79.43	79.78	77.86	77.47	78.59
18	78.35	77.63	78.07	78.07	77.33	78.19	76.69	79.59	79.70	77.86	78.91	78.49
19	78.43	77.67	78.21	77.69	77.67	78.24	76.65	79.60	79.14	77.53	77.71	77.64
20	78.04	77.68	77.88	77.52	77.44	78.48	76.52	79.32	78.50	77.50	77.56	77.18
21	77.94	77.31	77.37	77.67	77.77	78.23	77.53	79.68	77.61	77.46	78.98	77.14
22	77.63	77.57	77.37	77.43	77.77	78.21	77.88	79.71	78.02	77.36	79.10	77.66
23	77.94	77.61	77.29	77.43	77.54	78.36	77.74	79.64	78.96	77.37	77.59	77.89
24	78.14	77.66	77.22	77.98	77.23	78.36	77.69	79.30	79.15	78.34	76.17	77.83
25	78.14	77.57	77.08	77.98	78.51	78.37	77.70	77.55	79.34	77.57	77.20	78.85
26	78.11	77.67	77.07	78.03	78.51	78.18	77.64	79.39	78.31	76.98	77.11	78.92
27	77.62	77.68	77.72	77.92	78.21	78.48	77.60	79.48	77.86	77.27	76.82	78.24
28	77.95	77.30	77.45	77.91	77.10	78.52	77.15	78.05	77.88	77.35	76.89	78.16
29	77.92	77.15	77.64	77.64	77.31	77.88	77.61	77.93	78.95	77.49	76.95	77.55
30	77.56	77.57	77.76	77.35	---	77.97	78.15	77.93	79.06	77.44	75.78	77.36
31	77.70	---	77.66	77.61	---	77.95	---	78.05	---	78.34	75.85	---
MAX	79.62	77.98	78.21	78.07	78.51	78.72	78.35	79.71	79.83	79.23	79.10	78.92
CAL YR 1991	LOW 80.87											
WTR YR 1992	LOW 79.83											



## MIAMI COUNTY

395848084085500. Local number, MI-3.

LOCATION.--Lat 39°58'48", long 84°08'55", Hydrologic Unit 05080001, 2.0 mi northeast of Tipp City.

Owner: Fulton Fruit Farms.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 5 in., depth 48 ft, cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 804.78 ft above National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District.)

Measuring point: Floor of shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1966 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 15.61 ft below land-surface datum, Feb. 4, 1971;  
minimum daily low, 7.53 ft below land-surface datum, Feb. 25, 1975.WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 8, 1991	12.62	Jan. 9, 1992	12.23	Apr. 22, 1992	10.06
Oct. 28, 1991	12.61	Mar. 3, 1992	11.70		

## MIAMI COUNTY--Continued

400208084112900. Local number, MI-44.

LOCATION.--Lat 40°02'08", long 84°11'29", Hydrologic Unit 05080001, on left bank of Great Miami River 0.7 mi east of city hall in Troy.

Owner: City of Troy.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled public supply water-table well, diameter 26 in, depth 105 ft, screened below 89 ft.

PERIOD OF RECORD.--August 1974 to current year.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MCO3 (00453)
NOV 25...	1000	748	7.8	-3.5	11.5	<10	87	35	21	2.3	357
APR 15...	1030	767	7.7	12.5	13.5	11	86	32	22	2.5	360
AUG 12...	1010	740	7.6	22.0	15.0	<10	86	32	21	2.5	369

DATE	ALKA- LINIT WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
NOV 25...	293	73	33	0.80	13	487	<0.010	<0.050	<1	<1
APR 15...	295	69	38	0.80	13	432	<0.010	<0.050	--	--
AUG 12...	300	70	35	0.80	13	425	<0.010	<0.050	2	2

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 25...	<1	--	<1	1000	5	<1	58	100	20	1.2
APR 15...	--	--	--	1200	--	--	52	--	--	1.0
AUG 12...	<1	2	<1	880	1	<1	56	50	27	1.3

## MONTGOMERY COUNTY

393757084173600. Local number MT-928.

LOCATION.--Lat 39°37'57", long 84°17'36", Hydrologic Unit 05080002, on right bank of Great Miami River 0.2 mi south of Linden Ave. bridge, Miamisburg.

Owner: City of Miamisburg.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled municipal supply water-table well, 20 in, depth 95 ft, screened below 70 ft.

PERIOD OF RECORD.--September 1983 to current year.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
NOV											
25...	1310	919	7.6	-1.5	14.5	12	94	29	50	4.3	353
APR											
15...	1245	906	7.6	21.0	16.5	12	86	29	52	4.2	333
AUG											
12...	1300	815	7.7	31.5	15.5	<10	85	28	41	2.6	344
DATE	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS (00410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FIBRO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	
NOV											
25...	288	77	87	0.30	9.7	518	0.020	1.10	<1	<1	
APR											
15...	273	81	84	0.30	8.7	513	0.030	1.70	--	--	
AUG											
12...	280	75	68	0.30	8.5	466	0.020	2.00	1	1	
DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	
NOV											
25...	<1	--	4	12	6	<1	170	30	10	1.2	
APR											
15...	--	--	--	25	--	--	190	--	--	1.3	
AUG											
12...	<1	6	4	10	2	<1	170	30	9	1.4	

## MONTGOMERY COUNTY--Continued

394012084151700. Local number, MT-55.

LOCATION.--Lat 39°40'12", long 84°15'17", Hydrologic Unit 05080002, Elm Street in West Carrollton.

Owner: Oxford Paper Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 84 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 717.6 ft above National Geodetic Vertical Datum of 1929.

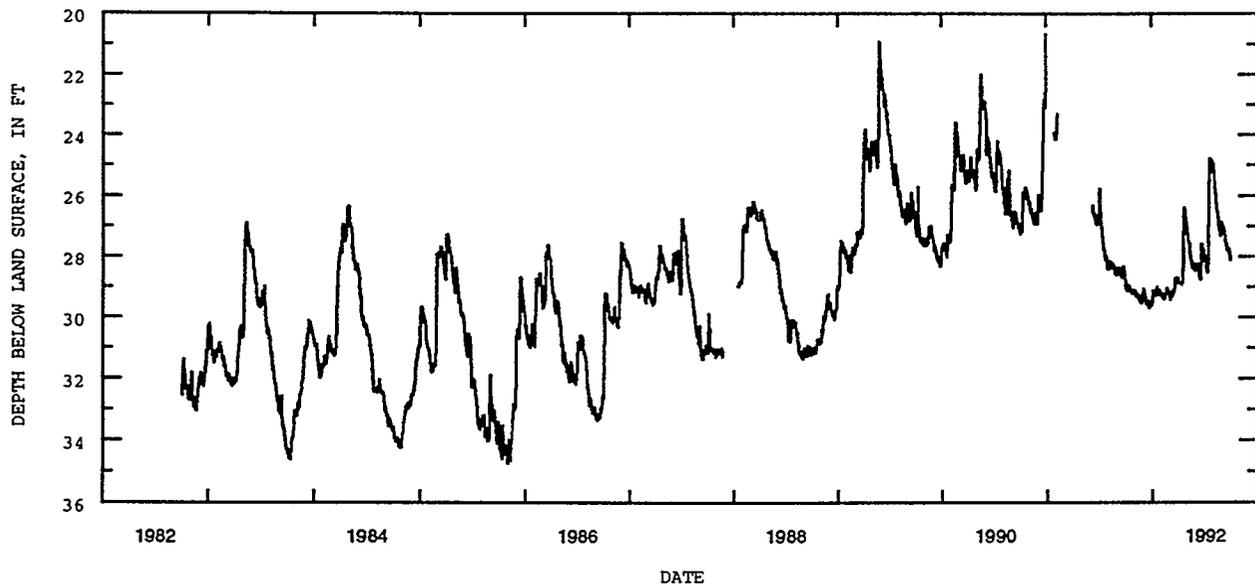
Measuring point: Floor of instrument shelter 0.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 58.57 ft below land-surface datum, Nov. 24, 1974;  
minimum daily low, 20.69 ft below land-surface datum, Jan. 1, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.85	29.11	29.19	29.53	29.26	29.17	28.74	27.02	28.32	27.98	25.16	26.88
2	28.96	29.15	29.21	29.51	29.18	29.27	28.79	27.03	28.32	28.05	24.90	27.02
3	28.98	29.11	29.18	29.50	29.22	29.34	28.84	27.05	28.36	28.06	25.10	27.09
4	29.05	29.18	29.10	29.41	29.25	29.39	28.89	27.19	28.36	28.07	25.25	27.20
5	29.07	29.22	29.12	29.21	29.28	29.42	28.89	27.32	28.39	28.12	25.44	27.20
6	29.07	29.25	29.19	29.22	29.31	29.42	28.89	27.44	28.42	28.29	25.60	27.12
7	29.04	29.30	29.24	29.26	29.34	29.34	28.87	27.51	28.42	28.38	25.76	27.05
8	29.10	29.30	29.28	29.27	29.34	29.29	28.87	27.55	28.24	28.42	25.83	27.20
9	29.13	29.31	29.38	29.30	29.28	29.32	28.88	27.55	28.27	28.46	25.88	27.25
10	29.13	29.21	29.44	29.30	29.35	29.32	28.88	27.54	28.36	28.49	26.01	27.32
11	29.05	29.27	29.50	29.30	29.39	29.32	28.89	27.64	28.45	28.53	26.10	27.40
12	29.04	29.31	29.53	29.12	29.40	29.30	28.91	27.74	28.51	28.53	26.21	27.47
13	29.04	29.31	29.53	29.24	29.41	29.28	28.91	27.88	28.58	28.53	26.32	27.48
14	28.99	29.33	29.51	29.24	29.41	29.16	28.87	27.99	28.58	28.51	26.45	27.51
15	29.01	29.37	29.54	29.20	29.39	29.11	28.85	28.08	28.66	28.03	26.52	27.55
16	29.05	29.37	29.56	29.06	29.26	29.20	28.85	28.09	28.70	27.32	26.53	27.59
17	29.08	29.29	29.59	29.11	29.26	29.22	28.84	28.11	28.76	26.66	26.61	27.67
18	29.12	29.34	29.63	29.11	29.26	29.22	28.70	28.21	28.76	25.88	26.71	27.73
19	29.14	29.35	29.64	28.98	29.24	29.15	28.15	28.25	28.47	25.23	26.84	27.76
20	29.14	29.41	29.66	29.14	29.21	29.09	27.45	28.29	28.09	24.84	26.91	27.74
21	29.08	29.46	29.68	29.22	29.18	28.99	26.92	28.35	27.69	24.77	26.99	27.69
22	29.14	29.49	29.69	29.27	29.15	28.79	26.68	28.40	27.57	24.81	27.10	27.70
23	29.16	29.51	29.69	29.27	29.04	28.76	26.53	28.40	27.65	24.86	27.12	27.74
24	29.20	29.52	29.56	29.25	29.09	28.79	26.45	28.33	27.74	24.87	27.19	27.73
25	29.22	29.52	29.47	29.24	29.13	28.80	26.45	28.23	27.75	24.88	27.28	27.76
26	29.21	29.52	29.59	29.12	29.16	28.80	26.48	28.24	27.75	24.88	27.35	27.88
27	29.09	29.44	29.65	29.12	29.19	28.83	26.66	28.32	27.76	24.83	27.34	27.89
28	29.13	29.42	29.66	29.19	29.22	28.83	26.76	28.40	27.79	24.90	27.19	27.94
29	29.17	29.26	29.53	29.21	29.23	28.73	26.83	28.47	27.82	25.02	27.01	27.98
30	29.18	29.23	29.59	29.22	---	28.73	26.93	28.47	27.90	25.11	26.86	28.10
31	29.18	---	29.59	29.25	---	28.73	---	28.46	---	25.17	26.87	---
MAX	29.22	29.52	29.69	29.53	29.41	29.42	28.91	28.47	28.76	28.53	27.35	28.10

CAL YR 1991 LOW 29.69  
WTR YR 1992 LOW 29.69

MONTGOMERY COUNTY--Continued

394025084162800. Local number, MT-49.

LOCATION.--Lat 39°40'25", long 84°16'28", Hydrologic Unit 05080002, 1.2 mi west of city hall in West Carrollton.

Owner: Metal Shredders, Inc.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 220 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 714.61 ft above National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District.)

Measuring point: Floor of shelter 2.50 ft above land-surface datum.

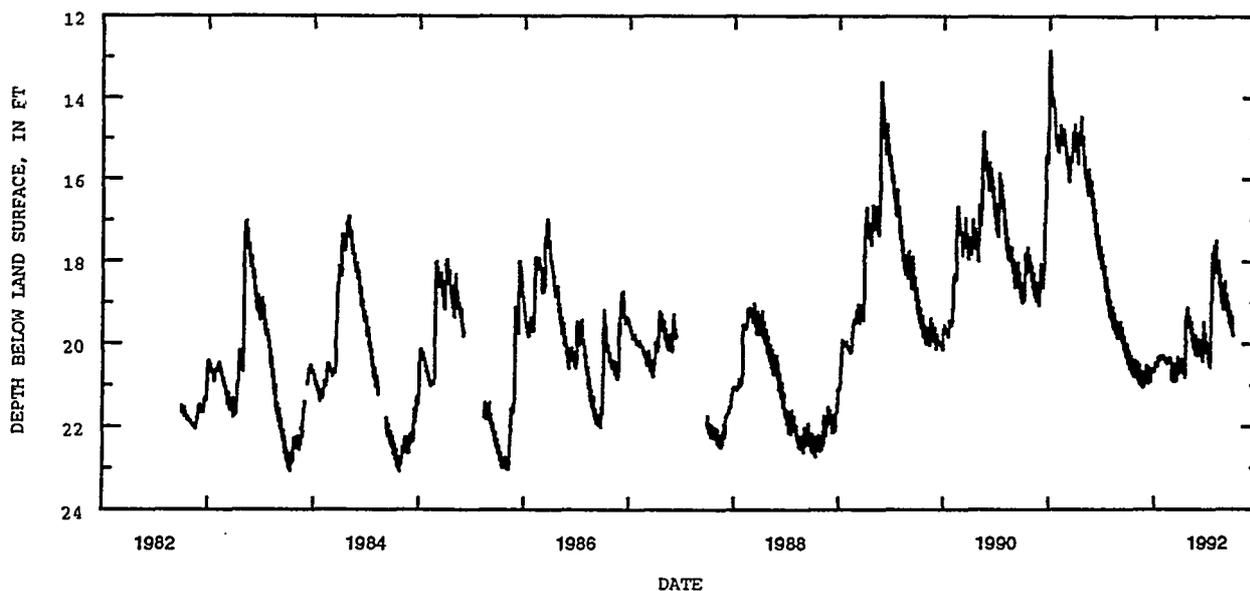
PERIOD OF RECORD.--November 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 36.30 ft below land-surface datum, Dec. 8, 1974; minimum daily low, 10.58 ft below land-surface datum, Jan. 23, 1959.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.37	20.81	20.68	20.64	20.33	20.43	20.62	19.60	20.15	20.27	17.70	18.95
2	20.41	20.61	20.88	20.63	20.32	20.80	20.61	19.40	20.19	20.34	17.47	19.00
3	20.44	20.47	20.81	20.58	20.31	20.85	20.61	19.31	20.23	20.36	17.90	19.09
4	20.48	20.45	20.66	20.51	20.34	20.88	20.40	19.58	20.22	20.15	18.05	19.16
5	20.27	20.43	20.51	20.49	20.36	20.86	20.35	19.66	20.25	20.02	18.13	18.96
6	20.14	20.80	20.81	20.49	20.34	20.88	20.60	19.71	20.01	20.39	18.23	18.81
7	20.47	20.87	20.63	20.52	20.37	20.66	20.64	19.72	19.87	20.46	18.31	18.78
8	20.54	20.62	20.51	20.50	20.39	20.52	20.67	19.71	20.12	20.49	18.11	19.14
9	20.59	20.53	20.86	20.51	20.41	20.77	20.70	19.50	20.17	20.52	17.97	19.19
10	20.55	20.48	20.90	20.53	20.41	20.80	20.71	19.46	20.24	20.54	18.34	19.27
11	20.56	20.86	20.96	20.51	20.46	20.55	20.45	19.78	20.30	20.31	18.43	19.31
12	20.34	20.92	20.96	20.51	20.45	20.47	20.38	19.86	20.31	20.22	18.51	19.05
13	20.26	20.95	20.91	20.49	20.43	20.47	20.66	19.94	20.08	20.44	18.57	18.97
14	20.54	20.95	20.70	20.44	20.45	20.46	20.70	20.03	19.98	20.08	18.61	19.13
15	20.60	20.99	20.63	20.36	20.43	20.48	20.71	20.08	20.37	19.53	18.37	19.20
16	20.65	20.81	20.61	20.33	20.46	20.79	20.81	19.85	20.38	19.16	18.32	19.38
17	20.68	20.65	20.85	20.33	20.44	20.90	20.71	19.75	20.42	18.78	18.73	19.46
18	20.72	20.94	20.89	20.32	20.37	20.85	20.33	20.05	20.22	18.22	18.83	19.52
19	20.66	20.98	20.73	20.32	20.39	20.82	19.69	20.11	19.97	17.81	18.91	19.33
20	20.38	21.00	20.92	20.33	20.40	20.75	19.44	20.17	19.56	18.19	18.98	19.19
21	20.66	21.03	20.73	20.33	20.38	20.52	19.36	20.22	19.44	18.30	19.01	19.46
22	20.75	21.05	20.68	20.33	20.33	20.30	19.34	20.24	19.80	18.36	18.81	19.54
23	20.75	20.86	20.62	20.32	20.31	20.64	19.32	20.01	19.87	18.41	18.69	19.57
24	20.77	20.69	20.64	20.39	20.35	20.67	19.39	19.84	19.94	18.19	19.06	19.59
25	20.77	20.67	20.63	20.35	20.36	20.64	19.20	19.79	19.98	17.86	19.13	19.64
26	20.54	20.68	20.64	20.35	20.36	20.68	19.11	20.09	20.04	17.60	19.18	19.43
27	20.38	21.02	20.67	20.31	20.38	20.73	19.45	20.17	19.82	17.81	19.12	19.32
28	20.71	20.84	20.64	20.32	20.48	20.52	19.51	20.27	19.74	17.89	18.87	19.67
29	20.76	21.02	20.60	20.30	20.47	20.36	19.53	20.30	20.11	17.93	18.65	19.75
30	20.77	20.82	20.65	20.27	---	20.54	19.58	20.05	20.19	17.94	18.47	19.79
31	20.79	---	20.69	20.31	---	20.55	---	19.89	---	17.94	18.83	---
MAX	20.79	21.05	20.96	20.64	20.48	20.90	20.81	20.30	20.42	20.54	19.18	19.79

CAL YR 1991 LOW 21.05  
WTR YR 1992 LOW 21.05



## MONTGOMERY COUNTY--Continued

394425084113200. Local number, MT-3.

LOCATION.--Lat 39°44'25", long 84°11'32", Hydrologic Unit 05080002, Patterson Blvd. at Stewart St., in Dayton.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 80 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 744 ft above National Geodetic Vertical Datum of 1929, from topographic map.

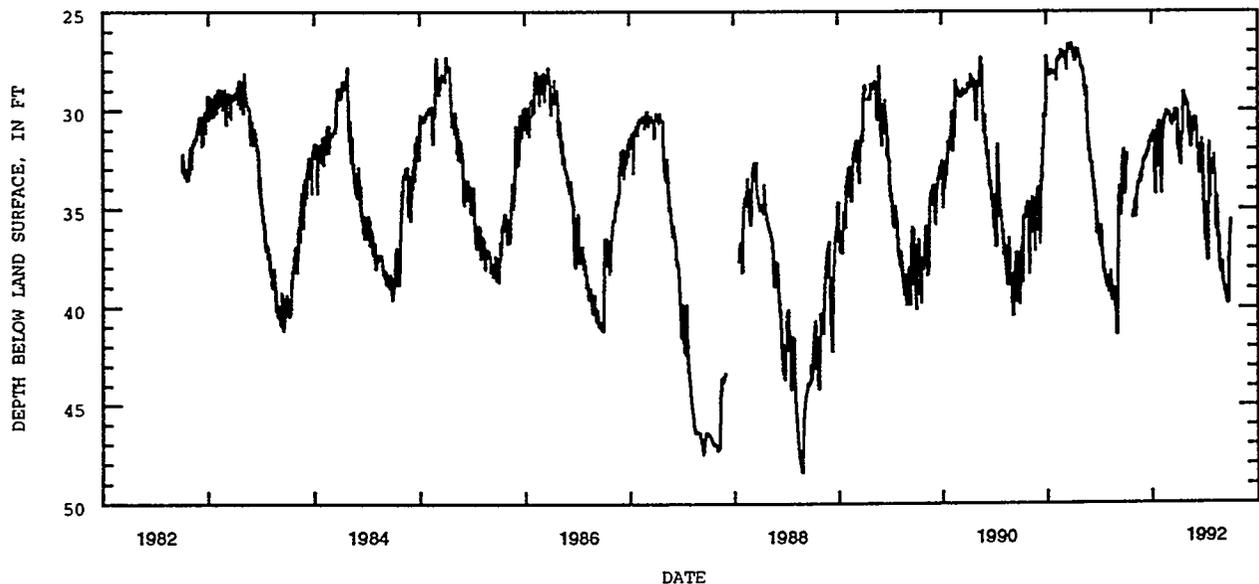
Measuring point: Floor of instrument shelter 1.20 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1945 to June 1974. Reactivated June 1980.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 79.45 ft below land-surface datum, Apr. 6, 1971;  
minimum daily low, 25.72 ft below land-surface datum, Mar. 21, 1982.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.89	35.00	32.97	31.38	33.78	30.13	32.06	29.64	30.38	35.49	32.48	38.21
2	33.09	34.91	32.79	31.36	33.88	30.24	30.75	29.77	30.40	35.94	32.25	38.36
3	32.84	34.81	32.55	31.37	34.01	30.27	31.08	29.77	30.58	36.22	32.86	38.61
4	32.76	34.63	32.60	31.30	34.22	30.34	31.56	29.72	30.76	36.34	33.16	38.69
5	32.66	34.52	32.59	31.28	34.22	30.35	31.78	29.75	30.92	36.56	33.29	38.75
6	32.47	35.42	32.53	31.23	32.45	30.44	32.02	30.73	31.81	36.63	33.28	38.83
7	32.26	35.32	32.45	31.24	31.68	30.58	32.34	31.10	32.00	35.77	33.41	38.90
8	---	34.82	32.45	31.22	31.29	30.62	32.58	31.17	32.00	36.54	35.11	39.02
9	---	34.43	32.48	31.23	31.14	30.63	32.66	30.40	31.88	36.99	35.80	39.18
10	---	34.22	32.46	32.88	30.95	30.68	32.69	30.25	31.73	37.26	36.04	39.22
11	---	34.09	32.38	33.61	30.87	30.68	31.76	30.14	31.94	37.46	34.87	39.22
12	---	34.05	32.38	33.83	30.86	30.54	31.54	30.16	32.01	37.60	34.60	39.20
13	---	33.87	32.37	34.10	30.60	30.47	31.45	31.20	32.72	37.65	34.47	39.13
14	---	33.77	32.30	34.26	30.54	30.38	31.31	31.54	33.02	35.93	34.40	39.21
15	---	33.76	32.25	33.80	30.44	30.42	31.18	31.81	33.22	33.50	35.78	39.37
16	---	33.71	32.16	32.13	30.44	30.44	31.20	31.90	33.17	32.14	36.38	39.50
17	---	33.67	32.13	31.47	30.42	30.64	31.16	31.90	33.14	31.64	36.50	39.61
18	---	33.58	32.13	31.36	30.29	30.64	30.30	31.27	33.11	32.26	36.20	39.73
19	---	33.63	32.13	31.21	30.27	30.34	29.52	31.27	32.30	32.99	36.44	39.73
20	---	33.59	32.02	30.96	30.26	30.26	29.05	31.27	31.58	34.05	36.80	39.67
21	---	33.56	31.91	30.92	30.23	30.05	29.14	31.29	31.45	34.41	37.16	39.76
22	---	33.41	31.85	30.92	30.16	29.97	29.15	31.01	32.37	33.33	37.45	39.81
23	---	33.32	31.70	30.83	30.12	30.04	29.23	30.85	32.19	32.62	37.67	39.73
24	---	33.21	31.68	30.85	30.16	30.04	29.37	30.71	31.76	32.63	37.85	37.95
25	---	33.67	31.63	30.83	30.15	30.07	29.39	30.51	31.83	32.63	38.03	36.99
26	35.44	33.33	31.63	30.68	30.15	30.09	29.43	30.37	32.74	32.54	38.16	36.51
27	35.38	33.14	31.70	30.58	30.16	30.15	29.48	30.94	34.00	32.50	38.17	36.16
28	35.36	33.06	31.61	32.29	30.21	30.15	29.51	30.73	34.57	33.10	38.13	35.93
29	35.20	32.98	31.50	32.89	30.23	30.06	29.51	30.56	34.73	33.10	38.03	35.81
30	35.18	32.98	31.45	33.31	---	30.00	29.64	30.54	35.05	32.69	37.68	35.58
31	35.11	---	31.46	33.59	---	31.60	---	30.51	---	32.66	37.98	---
MAX	35.44	35.42	32.97	34.26	34.22	31.60	32.69	31.90	35.05	37.65	38.17	39.81

CAL YR 1991 LOW 41.38  
WTR YR 1992 LOW 39.81

## MONTGOMERY COUNTY--Continued

394533084113800. Local number, MT-6.

LOCATION.--Lat 39°45'33", long 84°11'38", Hydrologic Unit 05080002, 3rd and Ludlow Sts., Dayton.

Owner: City of Dayton

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 60 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 740 ft above National Geodetic Vertical Datum of 1929, from topographic map.

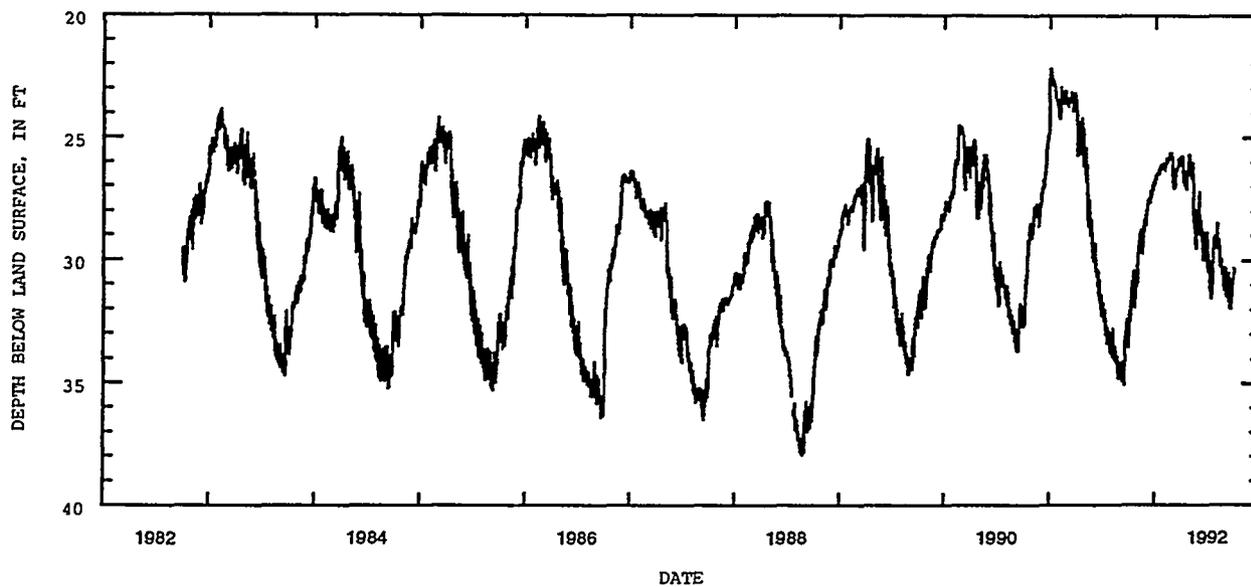
Measuring point: Floor of instrument shelter 13.00 ft below land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--February 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.20 ft below land-surface datum, Oct. 2, 1970;  
minimum daily low, 21.23 ft below land-surface datum, Feb. 26, 1982.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.21	30.89	28.40	26.80	26.27	25.77	25.91	26.21	27.64	30.26	29.24	30.76
2	33.39	30.68	28.21	26.75	26.20	26.27	25.81	26.41	27.86	30.39	28.45	31.05
3	33.49	30.32	28.06	26.70	26.26	26.45	25.76	26.17	28.50	30.46	29.16	31.25
4	33.55	30.09	27.98	26.69	26.28	26.68	25.77	26.05	28.37	30.11	29.22	31.47
5	33.46	29.85	27.91	26.66	26.25	26.91	25.78	26.65	28.65	29.75	29.12	31.14
6	32.71	29.65	27.78	26.58	26.19	27.08	25.84	26.61	28.97	30.23	29.19	30.84
7	32.30	29.52	27.68	26.55	26.14	27.03	26.29	26.19	28.34	30.26	29.50	30.86
8	32.09	29.40	27.60	26.54	26.05	26.78	26.55	26.20	28.71	30.70	29.46	30.94
9	32.51	29.28	27.59	26.48	26.05	26.99	26.78	26.17	29.02	31.04	29.15	31.24
10	32.42	29.15	27.54	26.50	25.98	26.80	26.85	26.00	28.71	31.26	29.64	31.48
11	31.78	29.05	27.47	26.48	25.95	26.68	26.95	26.94	28.89	31.21	29.86	31.65
12	31.57	28.97	27.57	26.47	25.93	26.47	26.70	27.71	29.21	30.88	29.99	30.76
13	31.39	28.88	27.68	26.45	25.95	26.45	26.50	27.91	29.23	31.13	30.04	30.48
14	31.18	28.97	27.62	26.50	25.93	26.31	26.36	28.41	29.03	31.55	30.22	31.33
15	31.07	28.94	27.55	26.48	25.96	26.27	26.54	28.03	29.56	31.21	30.02	31.42
16	30.94	28.87	27.39	26.42	25.97	26.23	26.88	28.45	29.33	31.05	29.90	31.71
17	30.97	28.76	27.26	26.33	25.86	26.34	27.09	28.56	29.97	30.86	30.00	31.92
18	30.99	28.96	27.27	26.31	25.90	26.28	27.03	28.78	29.96	30.56	30.26	31.95
19	30.78	29.17	27.25	26.26	25.85	26.14	26.58	28.48	29.88	29.68	30.37	31.28
20	30.52	29.74	27.17	26.20	25.81	26.17	26.51	29.23	29.30	29.56	30.56	30.99
21	30.42	29.20	27.15	26.21	25.78	26.14	26.61	29.22	28.92	29.41	30.42	31.70
22	30.97	29.06	27.10	26.19	25.73	25.95	26.46	29.46	28.88	29.08	30.53	31.66
23	31.57	28.92	27.00	26.13	25.65	25.98	26.38	29.46	28.88	29.41	30.27	31.17
24	31.94	28.80	27.00	26.20	25.64	26.18	26.49	29.52	29.36	29.48	30.68	31.01
25	31.88	28.67	26.98	26.15	25.63	26.11	26.14	28.26	29.71	29.49	30.89	30.89
26	31.19	28.50	26.94	26.15	25.64	26.12	25.84	28.09	29.76	28.99	31.17	30.84
27	30.88	28.39	26.95	26.13	25.83	26.03	25.67	27.69	29.42	29.24	31.22	30.51
28	30.89	28.31	26.90	26.21	25.84	25.96	25.74	27.85	28.85	29.45	30.90	30.56
29	30.99	28.49	26.85	26.23	25.86	25.84	25.83	27.72	29.51	29.44	30.56	30.44
30	31.05	28.57	26.85	26.22	---	25.82	26.08	27.45	29.95	29.50	30.28	30.31
31	30.89	---	26.84	26.28	---	25.96	---	27.18	---	29.35	30.84	---
MAX	33.55	30.89	28.40	26.80	26.28	27.08	27.09	29.52	29.97	31.55	31.22	31.95

CAL YR 1991 LOW 35.07  
WTR YR 1992 LOW 33.55

MONTGOMERY COUNTY--Continued

394811084095000. Local number, MT-74.

LOCATION.--Lat 39°48'11", long 84°09'50", Hydrologic Unit 05080002, Miami Well Field in Dayton.

Owner: City of Dayton.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 100 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 750 ft above National Geodetic Vertical Datum of 929, from topographic map.

Measuring point: Floor of instrument shelter 4.0 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

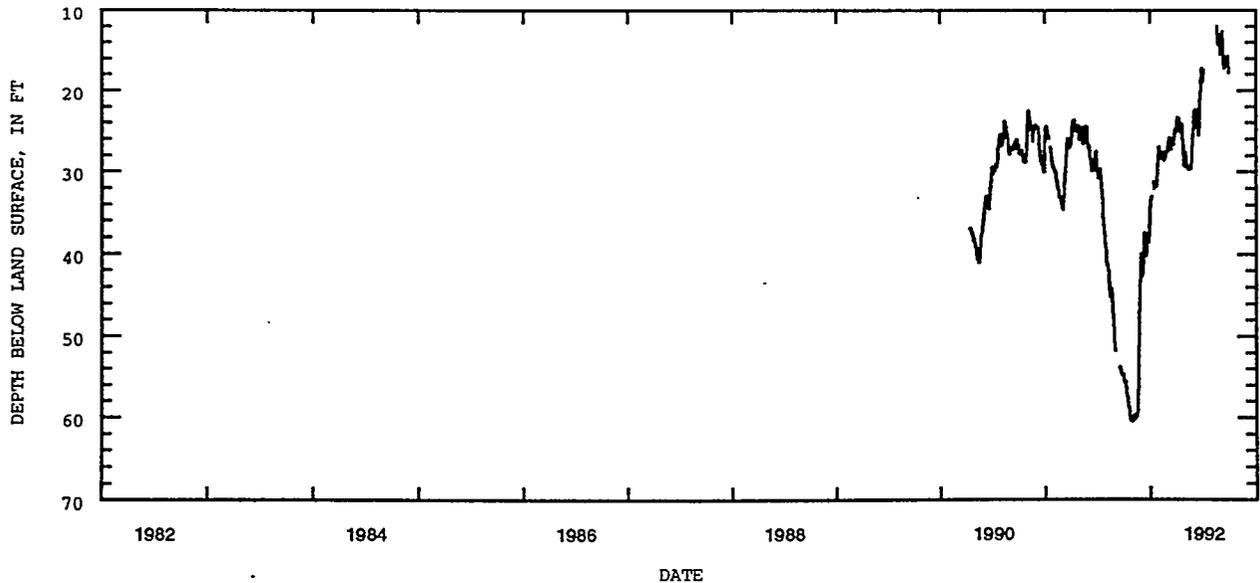
PERIOD OF RECORD.--April 18, 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.50 ft below land-surface datum, Oct. 31-Nov. 1, 1991;  
minimum daily low, 12.05 ft below land-surface datum, Aug. 20, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.74	60.50	39.85	35.22	27.17	27.48	24.87	29.05	24.22	18.83	---	15.49
2	54.90	60.40	40.50	34.60	27.14	27.42	24.80	28.30	23.38	18.24	---	14.25
3	55.28	60.31	41.58	33.98	26.85	27.44	24.81	27.92	22.55	18.15	---	13.70
4	55.59	60.20	42.35	33.55	27.41	27.38	24.35	27.57	---	17.77	---	12.77
5	55.65	60.02	42.55	33.35	27.90	26.99	24.00	28.46	---	17.42	---	12.95
6	55.62	60.00	42.52	33.13	28.10	26.70	23.25	28.67	---	---	---	13.37
7	55.45	59.87	42.30	33.00	28.23	26.26	23.41	29.01	---	---	---	12.55
8	55.60	59.75	41.50	---	28.23	26.09	23.48	29.10	22.40	---	---	14.50
9	56.00	59.68	40.70	---	27.94	25.96	23.56	29.25	22.63	---	---	15.39
10	56.48	59.67	39.88	---	27.84	25.74	23.37	29.32	22.81	---	---	15.75
11	56.90	59.65	39.05	---	28.42	26.00	23.65	29.32	22.63	---	---	16.12
12	57.24	59.84	38.37	---	28.41	27.10	23.75	29.32	23.58	---	---	15.95
13	57.26	59.98	37.67	---	28.08	27.26	24.12	29.48	24.13	---	---	16.30
14	57.33	59.98	37.40	---	27.91	27.26	24.33	29.52	24.43	---	---	17.18
15	57.61	59.80	38.78	31.25	27.58	27.21	24.71	29.65	25.18	---	---	17.22
16	57.88	59.80	39.18	31.64	27.80	27.09	25.08	29.65	25.33	---	---	16.10
17	58.25	59.78	39.44	31.86	27.83	25.90	25.22	29.51	25.51	---	---	16.35
18	58.60	59.55	40.12	31.75	27.48	26.04	24.38	29.62	25.53	---	---	16.74
19	58.71	59.15	40.28	31.39	28.45	26.31	24.15	29.61	25.51	---	---	16.76
20	58.73	57.40	39.37	31.13	28.65	26.40	24.06	29.44	23.70	---	12.05	16.61
21	58.95	55.85	38.90	31.10	28.43	26.61	24.30	29.40	22.28	---	12.74	16.61
22	59.33	54.08	38.28	31.70	28.15	26.44	24.91	29.57	21.57	---	13.15	16.60
23	59.70	52.40	37.98	31.85	27.82	26.65	25.74	29.63	20.75	---	13.95	16.82
24	59.86	50.05	37.70	31.80	27.60	26.65	26.25	29.55	20.34	---	14.35	16.85
25	60.22	48.08	37.75	31.52	27.83	26.30	26.54	28.00	19.84	---	13.93	15.73
26	60.34	45.75	38.32	30.97	27.95	25.75	26.80	27.22	19.15	---	14.15	15.58
27	60.25	43.97	38.38	29.96	27.85	25.35	27.27	26.45	17.78	---	14.24	16.00
28	60.08	42.60	38.15	29.20	27.50	25.17	28.50	25.87	17.10	---	13.98	16.80
29	60.17	41.52	37.50	28.60	27.55	24.92	29.12	25.60	18.10	---	13.95	17.35
30	60.34	40.67	36.75	28.12	---	24.72	29.20	24.90	19.00	---	13.98	17.70
31	60.50	---	35.95	27.75	---	24.81	---	24.57	---	---	15.35	---
MAX	60.50	60.50	42.55	35.22	28.65	27.48	29.20	29.65	25.53	18.83	15.35	17.70

CAL YR 1991 LOW 60.50  
WTR YR 1992 LOW 60.50



MUSKINGUM COUNTY

395804081593200. Local number, MU-1A.

LOCATION.--Lat 39°58'04", long 81°59'32", Hydrologic Unit 05040004, 2.2 mi northeast of the "Y" bridge in Zanesville.

Owner: Zanesville Water Department.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 109 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 700 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 4.48 ft above land-surface datum.

REMARKS.--Water level affected by nearby municipal wells and by stage of the Muskingum River. Prior to water year 1978, well depth reported as 132 ft.

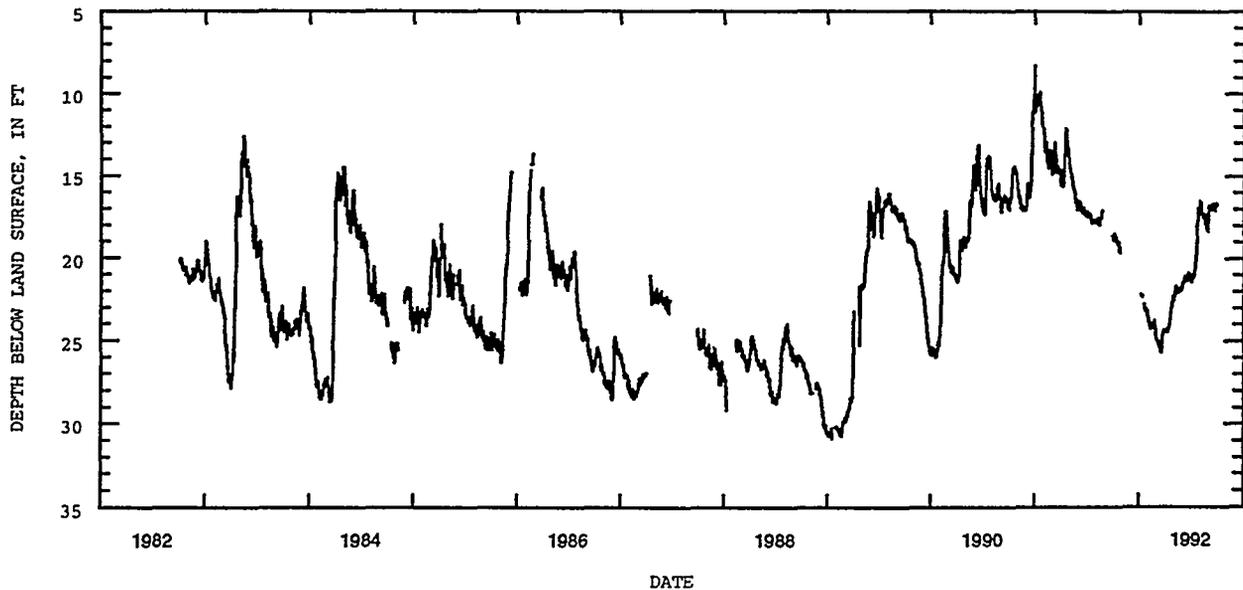
PERIOD OF RECORD.--May 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.25 ft below land-surface datum, Aug. 1-2, 1954;  
minimum daily low, 8.22 ft below land-surface datum, Jan. 1, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	23.35	24.34	24.40	22.47	21.66	21.32	17.09	17.02
2	---	---	---	---	23.40	24.50	24.32	22.43	21.58	21.35	17.03	16.77
3	18.69	---	---	---	23.42	24.65	24.40	22.46	21.47	21.41	16.55	16.88
4	18.92	---	---	---	23.51	24.73	24.40	22.30	21.50	21.41	16.60	16.94
5	18.91	---	---	---	23.61	24.85	24.37	22.24	21.47	21.27	16.82	16.97
6	18.91	---	---	---	23.72	24.92	24.35	22.20	21.47	21.18	17.02	16.93
7	18.82	---	---	---	23.80	24.94	24.34	22.26	21.30	21.20	17.20	16.97
8	18.82	---	---	---	23.85	24.95	24.35	22.19	21.27	21.16	17.24	16.93
9	18.47	---	---	22.17	23.94	24.97	24.35	21.80	21.25	21.02	17.33	17.01
10	18.75	---	---	22.21	23.96	25.02	24.46	21.66	21.15	21.05	17.30	17.01
11	18.74	---	---	22.25	24.06	25.10	24.43	21.75	21.05	21.06	17.41	17.02
12	18.76	---	---	22.22	24.10	25.20	24.40	21.83	21.08	20.99	17.46	16.73
13	18.76	---	---	22.25	24.19	25.27	24.17	21.82	21.19	20.84	17.46	16.80
14	18.85	---	---	22.28	24.25	25.33	24.21	21.87	21.18	20.76	17.50	16.76
15	18.95	---	---	---	24.25	25.35	24.24	21.91	21.26	20.58	17.56	16.90
16	19.03	---	---	---	24.25	25.43	24.17	21.98	21.33	20.56	17.56	16.93
17	19.10	---	---	---	24.17	25.53	24.15	22.05	21.35	19.88	17.58	17.02
18	19.16	---	---	---	24.17	25.62	24.07	22.06	21.28	19.83	17.48	17.02
19	19.03	---	---	---	24.16	25.64	24.00	22.04	21.25	19.64	17.27	17.05
20	19.03	---	---	---	24.14	25.65	23.73	21.92	21.15	18.98	17.47	16.82
21	19.04	---	---	22.78	24.04	25.54	23.63	21.85	20.99	18.98	17.90	16.86
22	19.05	---	---	22.97	24.04	25.37	23.55	21.93	20.97	18.68	17.80	17.03
23	19.05	---	---	23.00	23.93	25.20	23.35	21.96	20.97	17.97	17.87	17.12
24	19.40	---	---	23.11	23.91	25.01	23.20	21.87	20.94	17.93	18.01	16.98
25	19.54	---	---	23.14	23.85	24.77	23.10	21.80	20.97	17.78	18.07	16.84
26	19.55	---	---	23.10	23.81	24.66	22.87	21.77	21.05	17.67	18.03	16.70
27	19.38	---	---	23.07	23.99	24.62	22.74	21.88	21.12	17.02	18.25	16.66
28	---	---	---	23.16	24.12	24.58	22.70	21.90	21.16	17.09	18.29	16.63
29	---	---	---	23.20	24.26	24.60	22.64	21.86	21.17	16.87	17.92	16.75
30	---	---	---	23.31	---	24.30	22.51	21.82	21.20	17.07	17.70	16.76
31	---	---	---	23.27	---	24.40	---	21.75	---	17.08	16.87	---
MAX	19.55	---	---	23.31	24.26	25.65	24.46	22.47	21.66	21.41	18.29	17.12

CAL YR 1991 LOW 19.55  
WTR YR 1992 LOW 25.65



## PICKAWAY COUNTY

393327082571600. Local number, PK-7.

LOCATION.--Lat 39°33'27", long 82°57'16", Hydrologic Unit 05060002, 3.1 mi south of Circleville.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth drilled 172 ft, present depth 169 ft, cased to 164 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 705 ft above National Geodetic Vertical Datum of 1929, from topographic map.

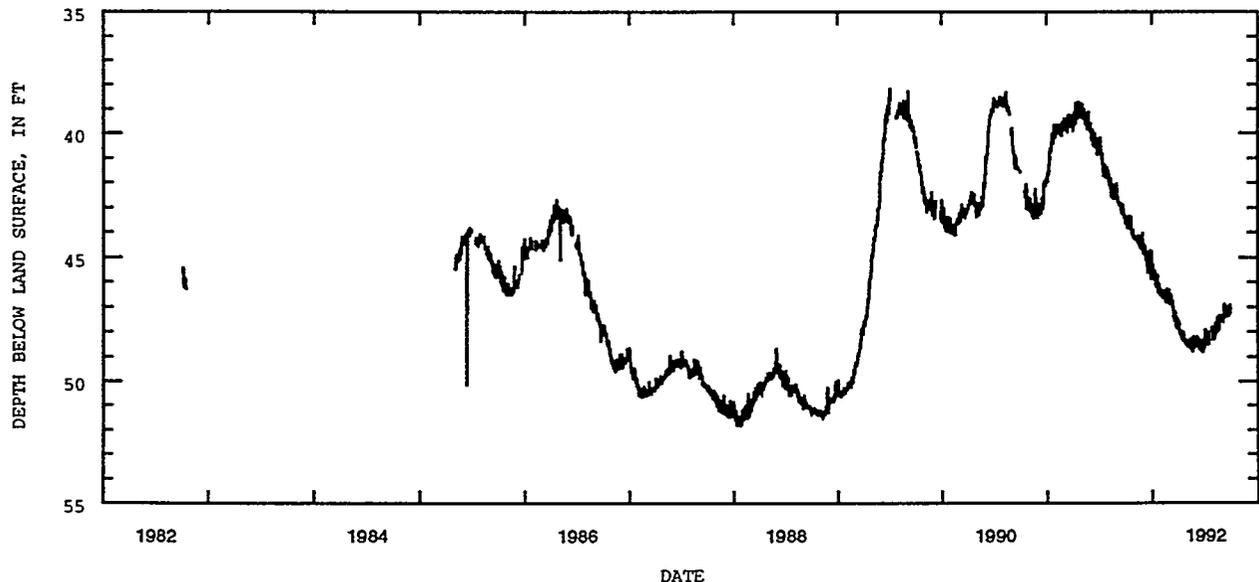
Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1972 to September 1982 continuous, October 1982 to April 1985 periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.80 ft below land-surface datum, Sept. 15, 1977;  
minimum daily low, 38.14 ft below land-surface datum, July 4, 1989.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.47	44.23	44.01	44.78	46.55	46.38	47.78	48.48	48.26	48.66	48.32	47.46
2	43.49	44.23	44.20	45.08	46.42	46.28	47.86	48.48	48.40	48.67	47.95	47.50
3	43.61	44.20	44.60	45.42	46.30	46.60	47.86	48.39	48.44	48.60	47.82	47.56
4	43.62	44.23	44.83	45.43	46.41	46.79	47.86	48.40	48.48	48.17	48.07	47.58
5	43.62	44.25	44.83	45.30	46.49	46.87	47.62	48.57	48.49	47.90	48.17	47.52
6	43.61	44.25	44.85	45.45	46.49	46.87	47.64	48.58	48.50	48.03	48.22	47.10
7	43.51	44.26	44.85	45.70	46.58	46.87	47.82	48.57	48.19	48.28	48.22	46.88
8	43.62	44.28	44.53	45.76	46.58	46.50	48.00	48.53	48.26	48.28	48.08	46.99
9	43.80	44.29	44.62	45.81	46.57	46.50	48.05	48.44	48.43	48.39	47.70	47.20
10	43.80	44.19	44.88	45.89	46.49	46.63	48.08	48.35	48.49	48.43	47.60	47.35
11	43.75	44.14	44.98	45.89	46.57	46.79	47.95	48.31	48.53	48.44	47.85	47.44
12	43.67	44.28	45.02	45.65	46.59	46.87	48.00	48.45	48.71	48.20	47.99	47.44
13	43.43	44.33	45.07	45.53	46.57	46.97	48.08	48.53	48.71	48.12	48.00	47.02
14	43.32	44.37	45.13	45.96	46.62	46.97	48.14	48.62	48.39	48.35	48.00	47.00
15	43.58	44.42	45.00	46.08	46.62	46.75	48.18	48.64	48.30	48.41	47.99	47.30
16	43.76	44.43	45.03	46.13	46.40	46.87	48.24	48.64	48.49	48.49	47.51	47.34
17	43.81	44.27	45.25	46.17	46.45	47.26	48.31	48.32	48.61	48.49	47.40	47.35
18	43.85	44.11	45.49	46.17	46.50	47.35	48.31	48.25	48.67	48.49	47.58	47.38
19	43.85	44.42	45.60	45.89	46.66	47.40	48.09	48.50	48.72	48.18	47.62	47.40
20	43.60	44.50	45.60	45.68	46.80	47.51	48.00	48.65	48.76	47.98	47.81	47.18
21	43.35	44.55	45.54	45.89	46.82	47.53	48.17	48.72	48.48	48.11	47.91	46.97
22	43.68	44.60	45.29	46.02	46.80	47.22	48.37	48.77	48.35	48.20	47.90	47.21
23	43.84	44.62	44.98	46.07	46.47	47.24	48.37	48.80	48.55	48.25	47.50	47.31
24	43.94	44.36	44.81	46.38	46.25	47.51	48.35	48.54	48.68	48.30	47.31	47.35
25	44.03	44.37	44.77	46.40	46.39	47.56	48.37	48.19	48.76	48.31	47.50	47.34
26	44.07	44.64	44.92	46.13	46.40	47.60	48.30	48.21	48.79	48.06	47.54	47.26
27	44.00	44.65	45.18	46.13	46.49	47.75	48.37	48.50	48.80	47.80	47.53	46.93
28	43.96	44.69	45.19	46.35	46.50	47.83	48.45	48.61	48.57	48.11	47.52	46.90
29	44.09	44.50	45.90	46.35	46.60	47.55	48.46	48.64	48.30	48.18	47.58	47.16
30	44.20	44.09	44.78	46.40	---	47.42	48.48	48.58	48.53	48.25	47.40	47.23
31	44.23	---	44.78	46.49	---	47.62	---	48.31	---	48.32	47.34	---
MAX	44.23	44.69	45.90	46.49	46.82	47.83	48.48	48.80	48.80	48.67	48.32	47.58

CAL YR 1991 LOW 45.90  
WTR YR 1992 LOW 48.80

PICKAWAY COUNTY--Continued

393402082572500. Local number, PK-4.

LOCATION.--Lat 39°34'02", long 82°57'25", Hydrologic Unit 05060002, 2 mi south of Circleville.

Owner: E.I. DuPont DeNemours.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 136 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 707 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

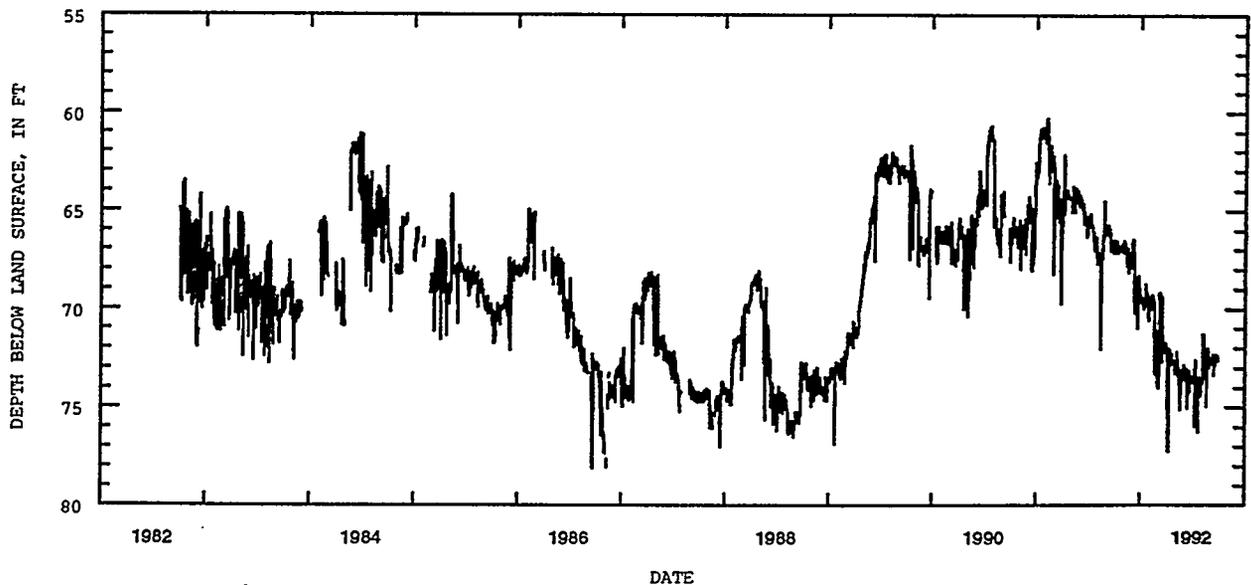
PERIOD OF RECORD.--January, 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 80.15 ft below land-surface datum, Nov. 3, 1972;  
minimum daily low, 47.40 ft below land-surface datum, Feb. 25, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67.20	67.00	67.80	68.90	70.60	71.10	71.90	72.75	73.30	73.60	74.15	72.75
2	66.90	66.80	67.35	69.20	70.40	71.60	72.15	73.10	72.80	73.75	74.30	72.50
3	66.50	67.05	67.70	69.40	70.15	72.65	72.15	73.20	72.90	73.75	73.70	72.70
4	66.50	67.15	66.60	69.65	69.45	73.10	72.45	73.25	73.15	73.70	73.80	72.75
5	67.20	66.85	66.75	69.45	69.90	73.70	72.60	73.25	73.20	73.45	73.80	72.75
6	67.10	66.70	66.65	69.40	69.75	74.00	72.30	73.30	73.50	73.55	73.75	72.75
7	66.65	66.60	66.45	69.70	69.80	73.30	72.35	72.30	73.55	73.45	73.75	72.70
8	66.75	66.65	66.60	69.65	69.95	73.30	72.45	72.45	73.55	73.25	72.20	72.50
9	66.80	66.70	66.45	69.60	69.90	71.30	72.90	72.15	73.30	73.00	71.25	72.55
10	66.65	66.95	67.25	69.80	70.05	69.80	77.25	72.60	73.30	73.10	71.55	72.30
11	66.55	66.90	67.45	69.70	69.55	69.15	73.50	72.60	73.00	75.95	72.60	72.25
12	66.80	66.90	67.10	69.90	69.50	69.40	72.30	72.90	73.55	73.40	72.75	72.55
13	67.10	66.90	69.15	69.85	69.25	70.10	72.35	73.00	73.30	72.55	73.50	72.70
14	67.05	67.20	70.20	69.55	69.35	70.15	72.05	72.90	73.50	73.65	72.35	72.75
15	67.05	67.00	69.35	70.00	69.35	69.30	72.10	73.00	75.05	74.90	72.75	73.35
16	67.20	67.45	69.60	69.70	69.70	69.40	72.90	73.15	73.80	74.75	72.65	72.75
17	66.90	67.85	68.55	69.90	69.90	69.70	72.45	73.30	73.20	74.65	72.15	72.75
18	67.05	66.90	68.80	69.20	69.60	69.70	72.40	73.60	73.25	74.55	72.55	72.80
19	67.05	67.05	68.60	69.15	69.50	69.35	72.40	73.70	73.45	74.30	72.25	72.90
20	67.10	66.90	69.55	68.70	70.00	72.70	72.40	74.30	73.30	74.05	73.50	72.75
21	67.00	68.15	69.55	69.05	69.70	71.30	72.35	75.10	73.30	75.90	74.95	72.65
22	67.10	67.65	69.70	69.00	69.60	71.65	72.60	73.60	73.10	76.25	73.00	72.55
23	66.75	67.50	69.65	69.15	69.65	71.70	72.60	73.60	74.20	73.80	72.65	72.30
24	67.00	67.65	71.00	69.75	73.30	71.80	72.50	73.60	73.50	73.95	72.15	72.40
25	67.00	67.90	68.80	69.15	71.55	71.85	72.60	73.50	73.55	73.40	71.95	72.40
26	66.90	67.90	68.40	69.20	71.25	71.75	72.75	73.70	73.50	74.05	72.35	72.45
27	66.80	67.55	68.30	69.30	71.35	72.10	72.75	73.50	73.35	73.80	72.50	72.50
28	66.90	67.65	69.40	69.75	71.40	72.15	72.70	73.10	73.35	73.90	72.55	72.55
29	66.85	67.80	---	70.05	71.55	71.80	72.75	73.40	73.60	74.10	73.00	72.65
30	67.00	67.85	---	70.25	---	72.15	72.80	73.00	73.70	74.10	72.80	72.40
31	66.65	---	69.15	70.50	---	71.70	---	73.25	---	74.45	72.80	---
MAX	67.20	68.15	71.00	70.50	73.30	74.00	77.25	75.10	75.05	76.25	74.95	73.35

CAL YR 1991 LOW 72.05  
WTR YR 1992 LOW 77.25



## PICKAWAY COUNTY--Continued

393638082572300. Local number, PK-6.

LOCATION.--Lat 39°36'38", long 82°57'23", Hydrologic Unit 05060002, Water Works Plant 1 mi northwest of Circleville.

Owner: Circleville Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 120 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 672 ft above National Geodetic Vertical Datum of 1929, from topographic map.

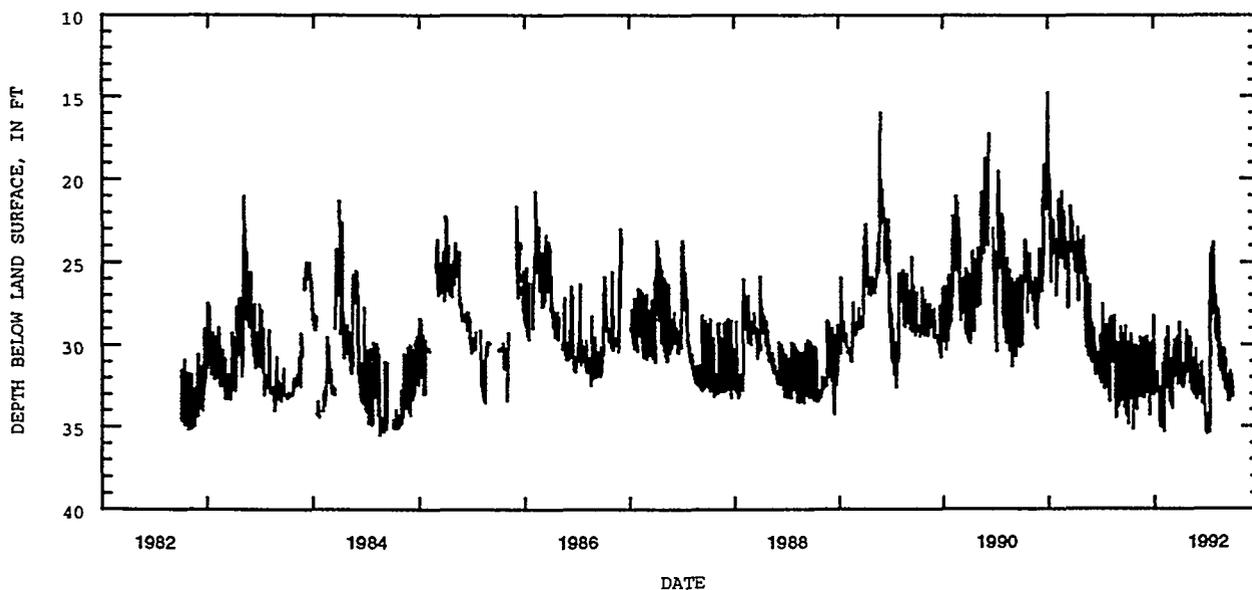
Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.32 ft below land-surface datum, Feb. 24, 1977;  
minimum daily low, 14.50 ft below land-surface datum, Feb. 2, 1969.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.00	32.80	33.05	32.80	32.70	31.55	30.05	31.70	31.20	34.60	29.10	32.20
2	29.80	30.35	33.25	33.10	32.60	33.65	28.60	31.00	32.25	35.45	29.35	32.00
3	29.85	30.50	32.55	28.20	31.10	32.70	30.15	30.30	32.30	35.00	29.15	32.70
4	29.85	34.00	32.40	32.65	35.10	33.25	29.75	30.30	32.85	34.65	27.00	30.85
5	30.10	32.45	32.65	32.90	32.80	32.40	32.20	32.00	33.00	35.05	29.40	32.55
6	32.80	31.00	29.95	32.90	35.30	33.90	32.45	32.30	32.50	34.45	29.70	31.80
7	34.85	30.10	32.90	32.85	34.75	31.30	31.30	29.50	31.90	35.30	29.30	32.75
8	32.00	33.00	32.95	32.90	31.60	30.25	31.30	30.60	32.80	35.30	27.75	32.50
9	30.90	33.10	31.60	32.90	30.50	32.30	32.45	29.80	33.10	35.10	29.00	32.10
10	29.95	33.10	29.45	32.80	31.00	30.90	32.50	31.90	32.60	35.40	29.75	32.15
11	29.90	33.05	30.00	32.95	31.40	31.20	31.90	31.90	32.95	32.70	30.20	32.40
12	32.30	31.50	32.50	32.95	30.55	30.70	32.45	32.75	33.00	34.95	29.50	31.80
13	32.85	33.15	31.35	32.95	31.00	30.90	31.10	32.75	32.70	34.45	27.85	32.40
14	30.90	33.15	32.80	31.60	29.70	30.40	31.25	30.85	32.55	33.20	31.35	33.45
15	33.10	32.65	32.70	32.60	30.85	29.70	31.60	32.25	31.05	28.30	31.10	33.00
16	29.30	32.65	32.95	32.70	29.80	31.00	32.40	32.30	33.00	27.35	28.30	33.30
17	29.65	29.55	32.75	32.45	32.10	31.60	31.25	32.80	33.50	28.70	31.55	33.50
18	29.85	31.90	34.30	32.75	29.55	31.90	31.70	32.95	33.45	24.50	31.50	33.30
19	32.30	33.15	33.05	32.75	31.20	31.60	31.90	30.80	32.35	25.50	31.10	33.35
20	30.20	33.10	29.90	32.75	32.20	31.70	29.90	32.40	32.45	24.80	31.60	31.55
21	35.15	33.20	31.35	34.65	28.90	31.80	31.05	33.00	32.00	24.10	31.10	32.75
22	34.30	33.20	33.00	34.20	32.55	30.25	30.95	33.10	32.55	24.10	31.30	33.20
23	30.20	32.05	33.00	34.95	32.85	32.20	30.30	32.30	33.10	25.20	31.35	32.35
24	33.05	30.35	32.75	33.45	33.00	32.40	30.60	32.55	33.45	25.35	31.10	32.20
25	33.00	33.15	32.90	32.60	33.05	32.40	30.65	30.80	33.90	25.20	30.75	31.80
26	30.05	31.00	32.90	35.05	33.35	29.50	29.10	30.25	33.80	27.70	32.20	33.20
27	31.45	29.60	32.90	33.70	33.50	31.40	29.30	32.55	34.80	23.80	30.45	32.20
28	31.60	30.20	32.90	32.50	33.20	30.60	31.20	33.20	35.30	26.00	30.75	33.00
29	31.70	33.25	32.80	34.45	33.10	31.20	31.15	33.30	35.00	27.35	31.05	32.60
30	30.00	30.10	29.80	33.00	---	32.15	29.90	32.50	34.80	26.50	30.20	33.15
31	31.95	---	31.85	34.25	---	31.50	---	31.30	---	27.30	30.90	---
MAX	35.15	34.00	34.30	35.05	35.30	33.90	32.50	33.30	35.30	35.45	32.20	33.50

CAL YR 1991 LOW 35.15  
WTR YR 1992 LOW 35.45

PICKAWAY COUNTY--Continued

393438083072200. Local number, PK-8.

LOCATION.--Lat 39°34'38", long 83°07'22", Hydrologic Unit 05060002, 0.5 mi south of Williamsport.

Owner: Village of Williamsport.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 10 in., depth 18 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 723 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 0.9 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

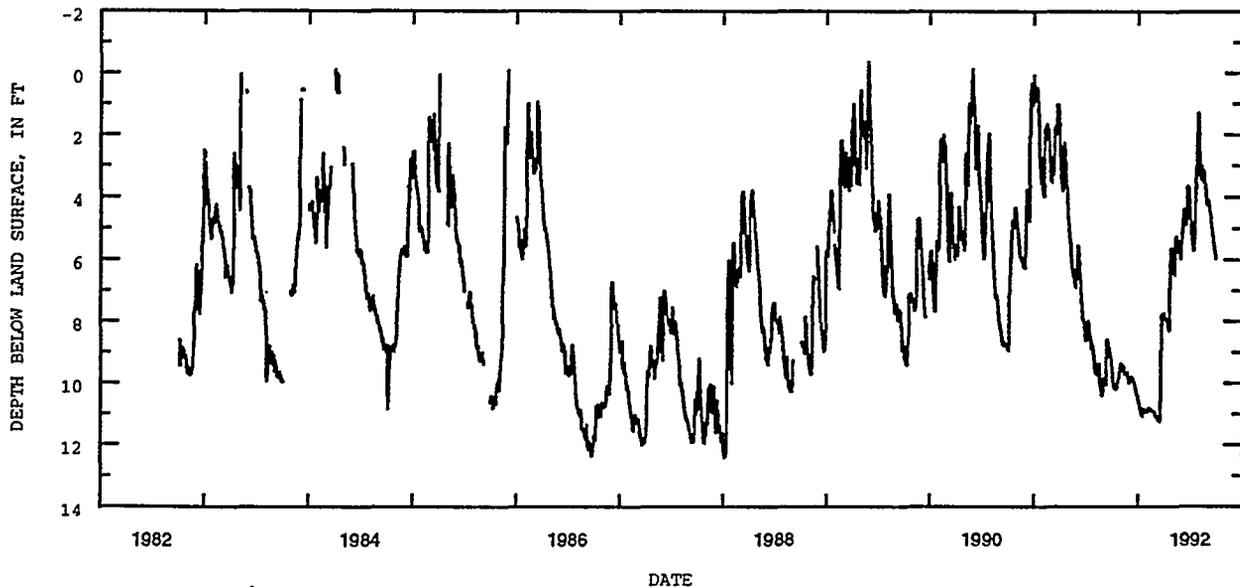
PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 12.38 ft below land-surface datum, Jan. 9, 13-14, 1988; minimum recorded daily low, 0.15 ft above land-surface datum, May 30, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.48	9.45	9.93	10.47	10.92	10.96	7.85	5.90	5.80	4.49	1.89	4.11
2	9.54	9.40	9.98	10.51	10.90	11.00	7.83	5.98	5.46	4.61	2.16	4.14
3	9.61	9.36	9.98	10.56	10.90	11.02	7.82	6.05	5.27	4.66	2.42	4.18
4	9.67	9.40	9.95	10.60	10.90	11.05	7.79	6.16	5.18	4.80	2.67	4.23
5	9.78	9.43	9.92	10.65	10.87	11.06	7.82	6.24	5.12	4.91	2.89	4.30
6	9.90	9.45	9.92	10.71	10.87	11.07	7.86	6.31	5.09	5.03	3.10	4.36
7	9.99	9.46	9.90	10.75	10.86	11.07	7.88	6.40	4.86	5.15	3.29	4.44
8	10.05	9.47	9.85	10.80	10.81	11.08	7.92	6.45	4.69	5.25	3.43	4.50
9	10.09	9.47	9.81	10.83	10.81	11.10	7.95	6.47	4.58	5.35	3.45	4.55
10	10.11	9.46	9.82	10.85	10.82	11.11	7.98	6.20	4.45	5.45	2.98	4.60
11	10.13	9.46	9.83	10.90	10.84	11.13	8.00	5.80	4.38	5.54	3.07	4.67
12	10.14	9.47	9.84	10.93	10.85	11.15	8.05	5.54	4.41	5.62	3.19	4.73
13	10.14	9.54	9.85	10.97	10.86	11.17	8.10	5.40	4.46	5.67	3.30	4.78
14	10.17	9.65	9.85	11.00	10.87	11.18	8.12	5.31	4.54	5.69	3.42	4.85
15	10.20	9.70	9.86	11.02	10.87	11.19	8.15	5.27	4.62	5.70	3.50	4.93
16	10.20	9.71	9.90	11.04	10.86	11.19	8.18	5.28	4.70	5.50	3.40	5.02
17	10.20	9.70	9.94	11.02	10.87	11.20	8.21	5.33	4.80	5.19	3.12	5.09
18	10.19	9.71	9.98	10.97	10.88	11.19	8.24	5.40	4.88	4.47	3.15	5.15
19	10.13	9.71	10.00	10.93	10.88	11.18	8.26	5.45	4.90	3.88	3.25	5.21
20	10.05	9.71	10.03	10.85	10.88	11.10	8.27	5.49	4.56	3.65	3.36	5.28
21	9.98	9.71	10.08	10.86	10.90	10.10	8.25	5.53	4.05	3.71	3.47	5.35
22	9.97	9.70	10.12	10.86	10.90	9.20	7.87	5.58	3.73	3.72	3.59	5.42
23	9.94	9.70	10.15	10.87	10.90	8.68	7.21	5.64	3.64	3.60	3.68	5.49
24	9.90	9.69	10.19	10.88	10.91	8.45	6.67	5.71	3.67	3.26	3.80	5.55
25	9.88	9.72	10.24	10.89	10.92	8.20	6.24	5.77	3.73	3.07	3.92	5.62
26	9.83	9.75	10.26	10.89	10.92	8.00	5.88	5.82	3.81	3.02	4.05	5.67
27	9.75	9.78	10.31	10.89	10.92	7.85	5.71	5.87	3.91	2.60	4.16	5.73
28	9.70	9.83	10.35	10.89	10.93	7.82	5.63	5.91	4.01	1.28	4.24	5.80
29	9.65	9.88	10.39	10.90	10.94	7.82	5.66	5.96	4.15	1.27	4.25	5.87
30	9.60	9.90	10.42	10.93	---	7.85	5.82	5.99	4.29	1.40	4.20	5.96
31	9.51	---	10.45	10.93	---	7.85	---	5.98	---	1.62	4.12	---
MAX	10.20	9.90	10.45	11.04	10.94	11.20	8.27	6.47	5.80	5.70	4.25	5.96

CAL YR 1991 LOW 10.45  
WTR YR 1992 LOW 11.20



## PICKAWAY COUNTY--Continued

394742083094800. Local number, PK-9.

LOCATION.--Lat 39°47'42", long 83°09'48", Hydrologic Unit 05060002, at Pickaway Correctional Institute near Orient, Ohio.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth 45 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 770 ft above National Geodetic Vertical Datum of 1929, from topographic map.

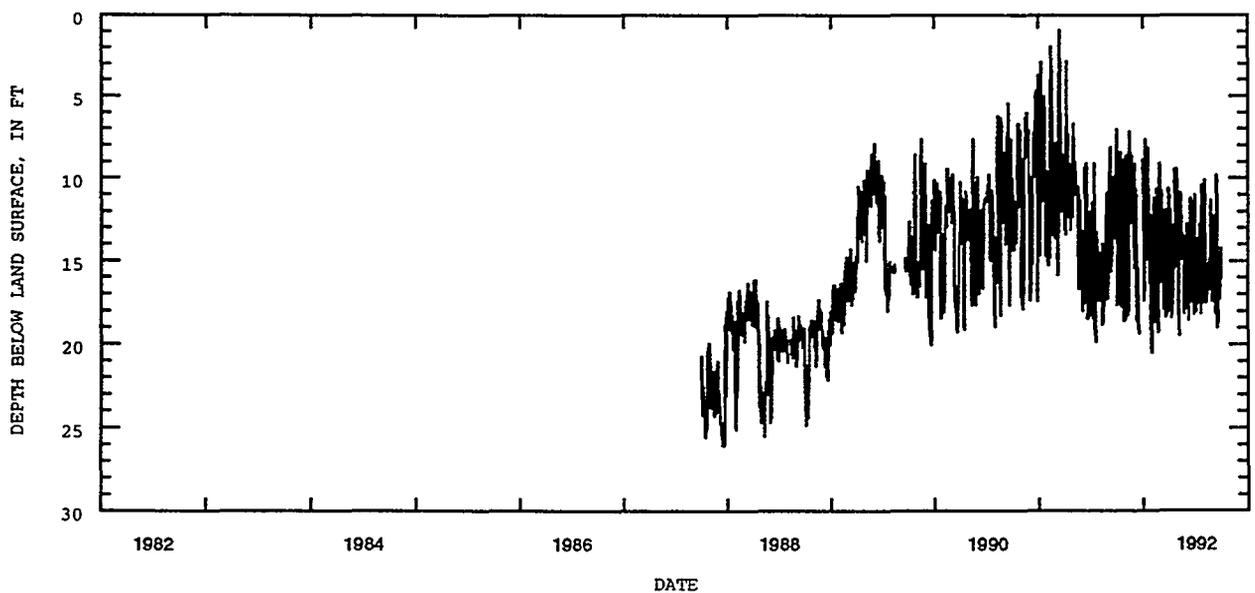
Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 26.10 ft below land-surface datum, Dec. 23, 1987; minimum daily low, 0.90 ft below land-surface datum, Mar. 17, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.60	18.45	12.05	---	16.15	9.35	10.60	10.00	12.70	15.55	13.45	---
2	7.00	11.40	14.30	8.90	15.85	9.20	13.70	10.50	12.80	16.20	11.90	---
3	11.45	8.80	15.45	10.15	15.00	14.15	13.00	16.20	14.20	17.40	12.80	14.50
4	16.40	8.60	9.10	10.95	16.45	15.05	14.60	17.40	15.00	17.40	10.10	14.80
5	17.55	10.50	14.95	15.40	14.15	15.00	15.20	14.00	16.20	15.45	11.50	16.20
6	17.50	13.40	15.20	17.40	14.40	10.70	14.70	17.10	16.55	15.80	15.15	17.45
7	9.50	12.85	10.65	16.25	11.90	14.60	11.90	19.40	14.85	18.05	16.40	12.20
8	11.65	10.70	14.20	10.25	11.15	16.05	13.60	16.60	17.35	17.05	17.55	15.35
9	16.35	13.90	14.00	7.60	11.20	16.30	13.60	13.40	18.55	17.40	17.50	16.90
10	17.60	16.00	16.65	13.05	13.15	13.35	18.40	13.80	18.00	17.45	16.15	18.15
11	14.30	17.40	17.60	13.65	15.90	15.35	18.40	10.85	15.50	13.60	16.70	15.90
12	12.20	18.25	18.50	8.50	18.30	17.25	17.95	11.20	16.00	14.15	17.50	16.75
13	11.95	17.80	18.55	10.85	18.70	17.25	13.50	11.25	14.55	14.30	16.65	17.50
14	9.10	9.80	15.40	11.60	18.40	17.90	17.00	12.95	12.35	15.40	15.60	17.65
15	8.40	7.15	16.50	14.25	14.15	16.60	17.60	14.00	11.20	15.95	15.30	9.80
16	9.05	7.70	17.60	14.95	12.30	15.60	17.45	14.95	11.55	12.75	16.60	10.30
17	14.60	9.10	18.35	9.20	13.60	16.70	16.30	13.30	13.70	16.20	16.75	16.90
18	17.30	11.90	19.30	8.10	14.20	16.70	15.10	13.55	15.00	16.85	15.65	18.70
19	17.75	12.45	---	10.20	13.50	11.90	15.30	13.65	15.10	14.15	15.55	19.00
20	10.25	12.55	---	12.60	10.60	16.85	15.40	13.90	15.00	16.65	16.50	18.40
21	9.40	12.70	---	13.00	11.30	18.35	15.35	13.95	15.40	17.60	16.75	16.05
22	9.00	9.30	---	10.55	11.45	17.05	9.40	14.90	17.50	18.15	12.80	16.35
23	9.65	10.65	---	13.70	15.35	17.10	9.70	16.50	16.80	11.70	11.65	15.30
24	8.85	8.60	---	16.35	18.60	17.30	13.85	18.05	16.80	12.50	11.30	14.60
25	15.45	11.60	---	15.95	19.25	17.40	13.40	18.15	15.95	10.50	11.50	15.70
26	16.10	12.45	---	14.40	19.05	18.25	11.15	16.75	16.20	10.40	12.95	15.15
27	17.30	12.50	---	13.55	12.60	16.80	9.40	15.40	18.20	13.50	13.95	15.65
28	18.30	11.85	---	12.35	9.65	18.10	9.65	16.55	12.80	15.70	17.45	17.30
29	18.55	14.15	---	16.25	9.05	17.55	13.80	17.20	11.00	17.55	17.25	14.20
30	18.35	14.00	---	20.10	---	14.45	13.20	16.70	15.00	11.95	16.50	16.10
31	18.55	---	---	20.50	---	10.70	---	14.50	---	13.40	15.80	---
MAX	18.55	18.45	19.30	20.50	19.25	18.35	18.40	19.40	18.55	18.15	17.55	19.00
CAL YR 1991	LOW	19.85										
WTR YR 1992	LOW	20.50										

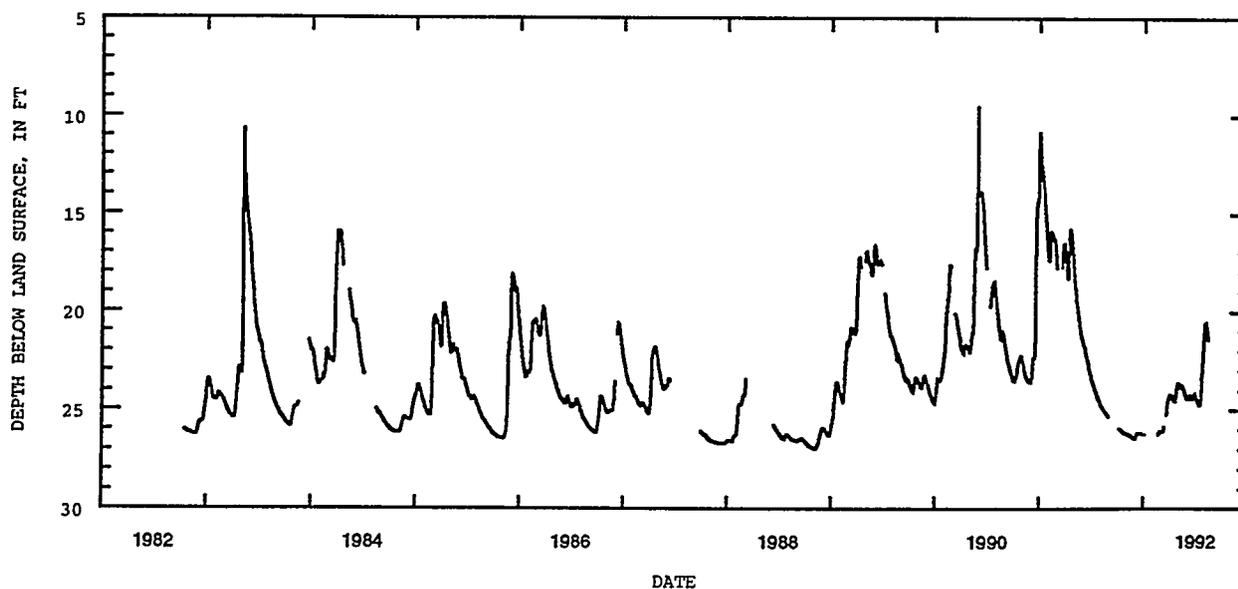


PIKE COUNTY

390359083015100. Local number, PI-2.  
 LOCATION.--Lat 39°03'59", long 83°01'51", Hydrologic Unit 05060002, 1 mi west of Piketon.  
 Owner: Goodyear Atomic Corporation.  
 AQUIFER.--Sand and gravel of Quaternary Age.  
 WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 60 ft, cased.  
 INSTRUMENTATION.--Digital recorder -- 60-minute punch.  
 DATUM.--Elevation of land-surface datum is 550 ft above National Geodetic Vertical Datum of 1929, from topographic map.  
 Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.  
 PERIOD OF RECORD.--September 1969 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 27.46 ft below land-surface datum, Feb. 15, 1977;  
 minimum daily low, 9.52 ft below land-surface datum, June 1, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	26.18	26.43	26.22	---	26.07	24.32	23.65	24.39	24.29	20.85	---
2	---	26.18	26.44	26.22	---	26.06	24.30	23.63	24.40	24.32	20.72	---
3	---	26.19	26.44	26.22	---	26.06	24.27	23.63	24.40	24.36	20.64	---
4	---	26.19	26.41	26.23	---	26.07	24.23	23.65	24.40	24.40	20.61	---
5	---	26.20	26.39	26.23	---	26.09	24.21	23.68	24.39	24.43	20.65	---
6	---	26.20	26.35	---	---	26.10	24.21	23.74	24.40	24.46	20.69	---
7	---	26.21	26.30	---	---	26.10	24.21	23.78	24.40	24.50	20.74	---
8	---	26.22	26.26	---	---	26.09	24.23	23.80	24.40	24.54	20.81	---
9	25.93	26.23	26.21	---	---	26.07	24.25	23.82	24.37	24.58	20.90	---
10	25.94	26.23	26.20	---	---	26.05	24.28	23.84	24.32	24.62	21.00	---
11	25.96	26.24	26.18	---	---	26.00	24.32	23.84	24.30	24.64	21.10	---
12	25.98	26.25	26.18	---	---	25.93	24.37	23.82	24.28	24.65	21.21	---
13	25.99	26.26	26.17	---	---	25.88	24.39	23.76	24.28	24.68	21.30	---
14	26.00	26.26	26.17	---	---	25.84	24.42	23.73	24.29	24.71	21.41	---
15	26.01	26.27	26.17	---	---	25.84	24.44	23.73	24.33	24.72	---	---
16	26.02	26.28	26.17	---	---	---	24.46	23.75	24.36	24.72	---	---
17	26.03	26.29	26.17	---	---	---	24.49	23.78	24.39	24.67	---	---
18	26.04	26.30	26.15	---	---	---	24.51	23.82	24.40	24.54	---	---
19	26.05	26.31	26.15	---	---	---	24.53	23.86	24.40	24.36	---	---
20	26.06	26.32	26.15	---	---	---	24.53	23.90	24.40	24.14	---	---
21	26.08	26.33	26.16	---	26.22	---	24.52	23.94	24.39	23.88	---	---
22	26.10	26.34	26.17	---	26.20	25.20	24.46	23.98	24.36	23.58	---	---
23	26.12	26.36	26.18	---	26.18	25.09	24.39	24.02	24.30	23.25	---	---
24	26.12	26.37	26.20	26.28	26.16	24.96	24.27	24.06	24.25	22.95	---	---
25	26.13	26.38	26.21	---	26.14	24.83	24.16	24.10	24.21	22.65	---	---
26	26.14	26.38	26.21	---	26.12	24.71	24.07	24.15	24.20	22.50	---	---
27	26.15	26.39	26.21	---	26.11	24.60	23.93	24.20	24.19	22.14	---	---
28	26.16	26.40	26.21	---	26.09	24.52	23.84	24.24	24.21	21.85	---	---
29	26.17	26.42	26.21	---	26.07	24.46	23.75	24.28	24.23	21.58	---	---
30	26.17	26.43	26.21	---	---	24.40	23.69	24.32	24.25	21.30	---	---
31	26.17	---	26.22	---	---	24.36	---	24.36	---	21.04	---	---
MAX	26.17	26.43	26.44	26.28	26.22	26.10	24.53	24.36	24.40	24.72	21.41	---
CAL YR 1991	LOW 26.44											
WTR YR 1992	LOW 26.44											



PORTAGE COUNTY

411401081025000. Local number, PO-1.

LOCATION.--Lat 41°14'01", long 81°02'50" Hydrologic Unit 05030103. Bauer Street in Windham.

Owner: Cristopher Minter.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 55 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 980 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 0.60 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

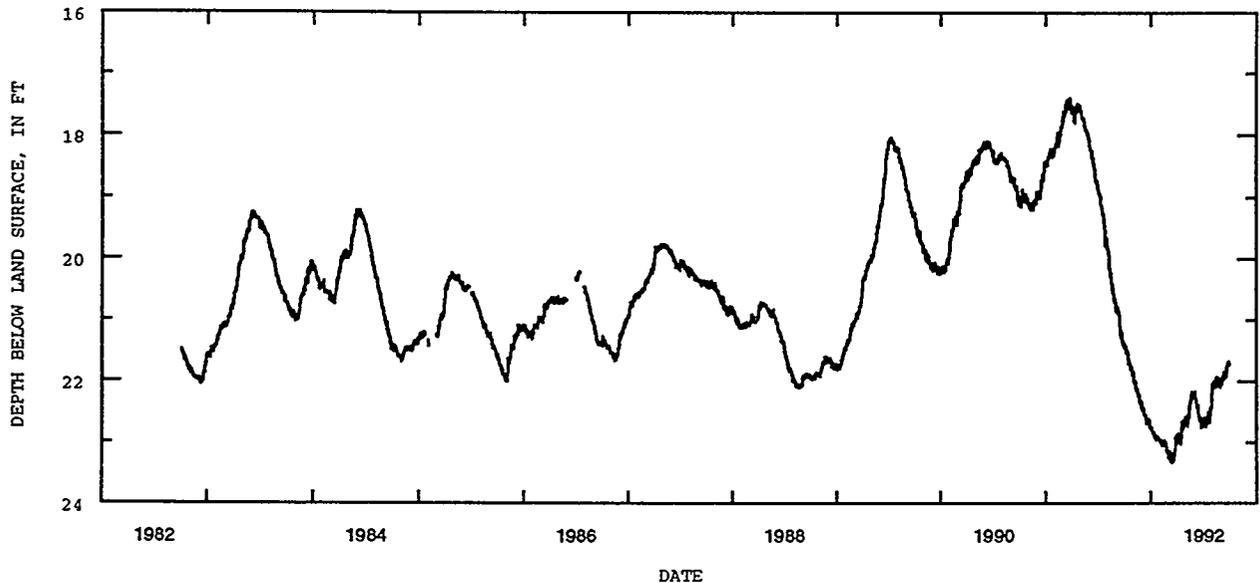
PERIOD OF RECORD.--May 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 23.32 ft below land-surface datum, Mar. 13, 1992;  
minimum daily low, 14.59 ft below land-surface datum, June 24, 1947.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.40	21.85	22.33	22.74	22.96	23.13	22.97	22.72	22.20	22.63	22.13	22.00
2	21.37	21.86	22.39	22.75	22.95	23.15	22.97	22.72	22.20	22.63	22.03	22.02
3	21.42	21.86	22.38	22.79	22.95	23.16	22.97	22.58	22.19	22.61	22.08	22.05
4	21.46	21.89	22.45	22.78	22.98	23.19	22.93	22.65	22.22	22.59	22.10	22.05
5	21.45	21.99	22.45	22.74	22.98	23.25	22.85	22.70	22.32	22.58	22.09	22.02
6	21.40	22.00	22.48	22.79	22.97	23.25	22.89	22.71	22.31	22.66	22.09	21.93
7	21.41	22.02	22.45	22.82	23.00	23.26	22.92	22.72	22.28	22.70	22.09	21.90
8	21.46	22.03	22.42	22.81	23.00	23.14	22.96	22.70	22.35	22.70	22.09	21.96
9	21.53	22.03	22.48	22.84	23.00	23.18	23.00	22.68	22.37	22.74	21.99	21.96
10	21.53	21.99	22.53	22.84	23.00	23.27	23.00	22.57	22.40	22.74	22.02	21.95
11	21.51	22.09	22.55	22.84	23.05	23.29	23.00	22.55	22.43	22.74	22.07	21.95
12	21.49	22.10	22.55	22.82	23.05	23.31	22.89	22.58	22.43	22.66	22.09	21.95
13	21.50	22.11	22.57	22.83	23.03	23.32	22.95	22.61	22.39	22.62	22.09	21.86
14	21.50	22.15	22.55	22.90	23.05	23.31	23.00	22.58	22.39	22.65	22.05	21.86
15	21.57	22.15	22.54	22.90	23.05	23.21	23.02	22.49	22.50	22.65	22.02	21.90
16	21.63	22.14	22.56	22.92	23.00	23.23	23.02	22.41	22.55	22.61	21.97	21.90
17	21.65	22.13	22.61	22.92	23.00	23.30	23.00	22.39	22.57	22.63	21.93	21.93
18	21.71	22.16	22.63	22.91	22.96	23.31	22.85	22.35	22.59	22.62	22.02	21.93
19	21.71	22.22	22.67	22.89	22.99	23.30	22.66	22.34	22.62	22.50	22.05	21.90
20	21.67	22.23	22.66	22.90	23.00	23.30	22.65	22.33	22.63	22.53	22.05	21.85
21	21.73	22.23	22.64	22.94	23.03	23.29	22.68	22.30	22.57	22.57	22.07	21.83
22	21.72	22.24	22.64	22.94	23.03	23.18	22.78	22.28	22.62	22.62	22.01	21.77
23	21.73	22.24	22.64	22.93	22.99	23.18	22.79	22.24	22.62	22.66	21.94	21.76
24	21.75	22.21	22.64	22.91	23.03	23.24	22.76	22.22	22.62	22.69	21.97	21.75
25	21.80	22.32	22.63	22.91	23.06	23.24	22.76	22.21	22.69	22.63	22.00	21.72
26	21.80	22.35	22.66	22.89	23.09	23.19	22.63	22.20	22.74	22.48	22.03	21.71
27	21.75	22.36	22.70	22.94	23.14	23.12	22.66	22.21	22.73	22.45	22.07	21.70
28	21.81	22.36	22.69	22.94	23.15	23.11	22.67	22.22	22.65	22.45	22.08	21.67
29	21.81	22.31	22.63	22.94	23.16	22.96	22.68	22.22	22.65	22.46	22.08	21.73
30	21.83	22.33	22.75	22.93	---	22.90	22.70	22.22	22.65	22.37	21.98	21.73
31	21.87	---	22.76	22.96	---	22.95	---	22.20	---	22.25	22.00	---
MAX	21.87	22.36	22.76	22.96	23.16	23.32	23.02	22.72	22.74	22.74	22.13	22.05

CAL YR 1991 LOW 22.76  
WTR YR 1992 LOW 23.32



## PREBLE COUNTY

394438084335900. Local number, PR-2.

LOCATION.--Lat 39°44'38", long 84°33'59", Hydrologic Unit 05080002, Stover Rd 4 mi east of Eaton.

Owner: Eaton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 78.5 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

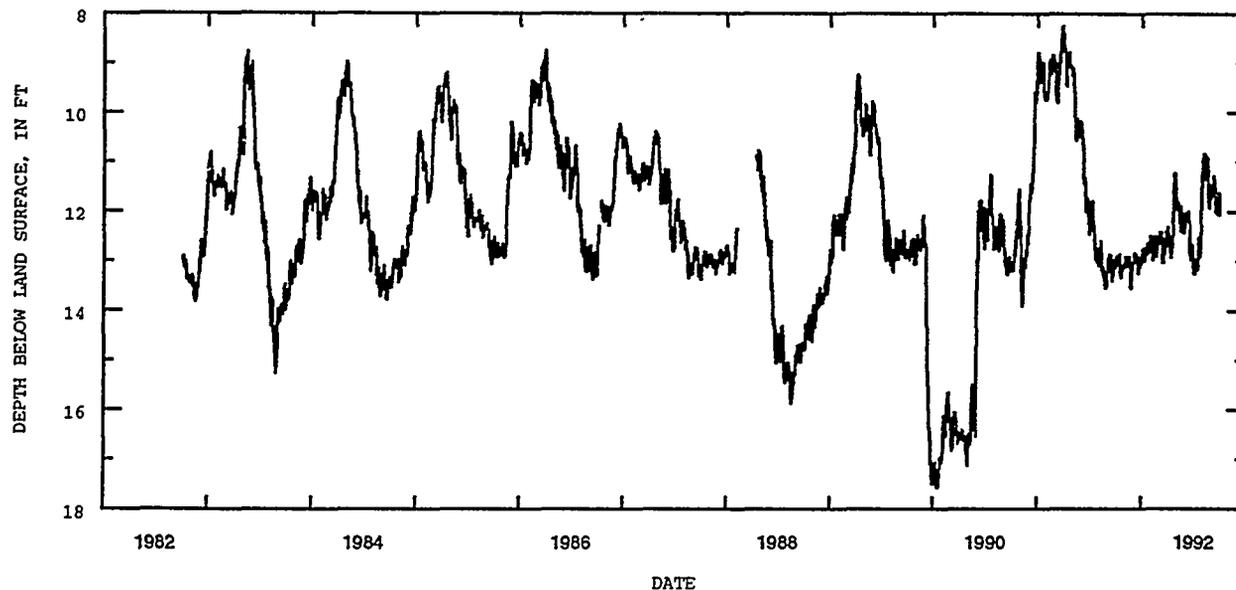
Measuring point: Floor of instrument shelter 1.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 17.58 ft below land-surface datum, Jan. 18, 1990;  
minimum daily low, 7.94 ft below land-surface datum, May 4, 1975.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.14	13.04	13.14	13.07	12.56	12.53	12.35	11.58	12.31	13.20	11.07	11.63
2	12.97	13.10	13.12	12.99	12.65	12.55	12.35	11.69	12.24	13.23	10.96	11.65
3	13.13	13.10	13.03	12.87	12.68	12.67	12.33	11.76	12.26	13.24	11.10	11.43
4	13.12	13.10	13.03	12.99	12.56	12.61	12.57	11.78	12.07	13.26	10.91	11.52
5	12.95	13.08	13.00	12.94	12.80	12.59	12.61	11.82	12.07	13.12	11.04	11.52
6	12.94	13.00	12.93	12.80	12.73	12.51	12.73	11.88	12.07	13.21	11.00	11.38
7	12.95	12.95	12.87	12.79	12.74	12.45	12.53	11.97	12.03	13.18	10.84	11.27
8	13.04	12.96	12.87	12.98	12.81	12.43	12.76	11.88	12.05	13.05	10.87	11.44
9	13.04	13.13	12.85	12.91	12.96	12.42	12.80	11.81	12.13	13.03	10.85	11.36
10	13.02	13.02	13.00	13.01	12.97	12.44	12.85	11.85	12.16	13.15	11.07	11.37
11	13.01	13.00	12.95	13.00	12.99	12.44	12.74	11.96	12.10	12.96	11.37	11.44
12	12.95	13.01	12.96	13.00	12.94	12.83	12.94	12.05	12.08	12.96	11.32	11.52
13	12.96	12.94	12.88	12.98	12.62	12.93	12.90	11.98	12.03	12.97	11.22	11.52
14	12.91	12.94	12.93	12.85	12.71	12.95	12.85	12.06	11.99	13.19	10.98	11.54
15	12.90	12.94	12.99	12.88	12.56	12.98	12.84	12.07	12.11	13.14	10.95	11.79
16	13.00	12.95	13.06	12.80	12.51	13.03	12.85	12.41	12.26	12.98	10.92	11.91
17	13.00	13.00	13.03	12.75	12.55	13.03	12.60	12.23	12.81	12.62	10.90	11.96
18	13.18	12.95	13.12	12.76	12.65	12.99	12.59	11.99	12.81	12.55	10.92	11.95
19	13.30	12.92	13.24	12.76	12.66	12.80	12.40	11.89	12.86	12.52	11.40	11.94
20	13.29	13.04	13.26	12.86	12.89	12.79	12.23	12.17	12.93	12.65	11.53	11.97
21	13.24	13.15	13.07	12.81	12.93	12.81	12.18	12.26	12.87	12.78	11.66	11.93
22	13.34	13.16	13.00	12.73	12.91	12.63	12.03	12.39	12.98	12.88	11.62	11.98
23	13.30	13.15	12.91	12.66	12.83	12.63	12.05	12.43	12.87	12.93	11.81	12.05
24	13.21	13.18	12.93	12.88	12.84	12.85	11.96	12.38	12.66	12.81	11.82	11.87
25	13.21	13.53	13.00	12.84	12.79	12.67	11.50	12.27	12.71	12.56	11.92	11.81
26	13.18	13.56	13.05	12.75	12.75	12.41	11.38	12.26	12.80	12.33	11.77	11.75
27	13.16	13.50	13.14	12.71	12.57	12.58	11.25	12.44	12.83	12.00	11.73	11.61
28	13.16	13.26	13.12	12.74	12.52	12.61	11.22	12.40	12.93	11.94	11.49	11.62
29	13.16	13.19	12.96	12.71	12.53	12.61	11.50	12.39	12.99	11.63	11.51	11.67
30	13.13	13.17	13.00	12.69	---	12.50	11.55	12.03	13.04	11.42	11.50	12.05
31	13.11	---	13.06	12.53	---	12.39	---	12.13	---	11.38	11.73	---
MAX	13.34	13.56	13.26	13.07	12.99	13.03	12.94	12.44	13.04	13.26	11.92	12.05

CAL YR 1991 LOW 13.56  
WTR YR 1992 LOW 13.56

## RICHLAND COUNTY

404625082305100. Local number, R-4.

LOCATION.--Lat 40°46'25", long 82°30'51", Hydrologic Unit 05040002, at Ohio Brass Plant in Mansfield.

Owner: Ohio Brass Company

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in., depth 127 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

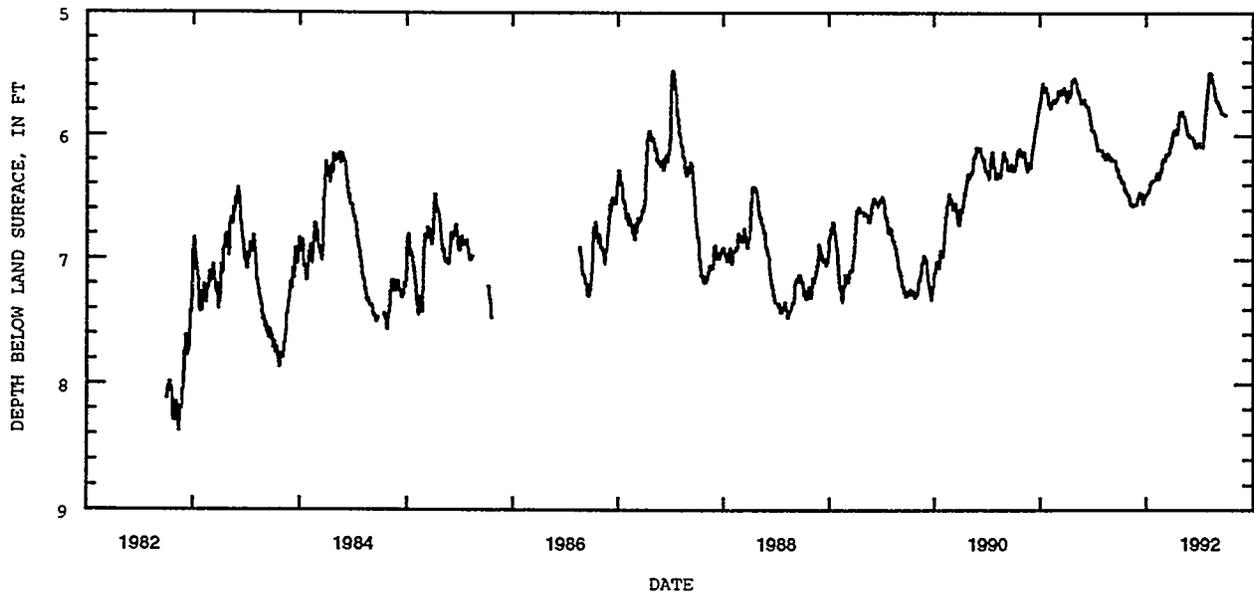
Measuring point: Top of platform 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.10 ft below land-surface datum, Oct. 12, 13, 19, 20, 1962;  
minimum daily low, 5.48 ft below land-surface datum, July 9-10, 1987.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.32	6.48	6.56	6.48	6.36	6.19	6.02	5.81	6.01	6.06	5.60	5.72
2	6.33	6.48	6.55	6.48	6.35	6.19	6.01	5.81	6.01	6.06	5.58	5.73
3	6.33	6.48	6.53	6.48	6.35	6.19	6.00	5.81	6.01	6.06	5.55	5.73
4	6.33	6.49	6.51	6.47	6.35	6.19	5.99	5.80	6.01	6.07	5.52	5.74
5	6.33	6.50	6.50	6.47	6.35	6.20	5.97	5.80	6.01	6.07	5.50	5.75
6	6.34	6.51	6.50	6.47	6.34	6.20	5.97	5.81	6.01	6.07	5.49	5.76
7	6.35	6.53	6.50	6.46	6.33	6.20	5.97	5.83	6.01	6.08	5.49	5.76
8	6.36	6.54	6.50	6.46	6.32	6.20	5.97	5.84	6.01	6.08	5.49	5.76
9	6.37	6.56	6.48	6.46	6.30	6.19	5.96	5.84	6.01	6.08	5.49	5.77
10	6.38	6.56	6.47	6.45	6.31	6.18	5.97	5.84	6.02	6.09	5.49	5.77
11	6.38	6.56	6.47	6.45	6.32	6.16	5.97	5.85	6.02	6.09	5.49	5.77
12	6.38	6.56	6.48	6.45	6.35	6.15	5.97	5.85	6.04	6.09	5.50	5.79
13	6.38	6.56	6.48	6.44	6.35	6.15	5.98	5.86	6.04	6.09	5.53	5.79
14	6.38	6.56	6.48	6.43	6.35	6.15	5.99	5.87	6.04	6.09	5.54	5.80
15	6.38	6.56	6.47	6.40	6.35	6.15	5.99	5.88	6.05	6.07	5.56	5.80
16	6.38	6.57	6.47	6.40	6.35	6.15	5.99	5.89	6.07	6.04	5.56	5.81
17	6.39	6.57	6.48	6.40	6.34	6.15	5.99	5.91	6.08	6.02	5.57	5.82
18	6.40	6.57	6.48	6.38	6.34	6.16	5.98	5.92	6.08	5.98	5.58	5.82
19	6.42	6.57	6.52	6.38	6.32	6.16	5.96	5.93	6.08	5.94	5.59	5.82
20	6.43	6.57	6.54	6.38	6.30	6.15	5.94	5.94	6.08	5.91	5.60	5.82
21	6.43	6.56	6.55	6.38	6.29	6.14	5.91	5.96	6.08	5.88	5.62	5.82
22	6.44	6.56	6.55	6.38	6.29	6.14	5.89	5.98	6.09	5.85	5.64	5.82
23	6.44	6.56	6.55	6.38	6.29	6.13	5.86	5.99	6.09	5.84	5.65	5.82
24	6.45	6.56	6.53	6.37	6.27	6.10	5.85	5.99	6.09	5.82	5.67	5.82
25	6.45	6.55	6.52	6.37	6.26	6.09	5.84	5.99	6.08	5.80	5.68	5.82
26	6.46	6.55	6.51	6.37	6.24	6.09	5.83	5.99	6.08	5.77	5.70	5.83
27	6.46	6.56	6.51	6.36	6.22	6.08	5.82	5.99	6.08	5.73	5.71	5.83
28	6.46	6.56	6.51	6.36	6.21	6.06	5.81	5.99	6.06	5.70	5.71	5.83
29	6.47	6.56	6.51	6.36	6.20	6.06	5.81	6.00	6.06	5.67	5.71	5.83
30	6.47	6.56	6.48	6.36	---	6.05	5.81	6.01	6.06	5.65	5.71	5.83
31	6.48	---	6.48	6.36	---	6.04	---	6.01	---	5.64	5.72	---
MAX	6.48	6.57	6.56	6.48	6.36	6.20	6.02	6.01	6.09	6.09	5.72	5.83
CAL YR 1991	LOW	6.57										
WTR YR 1992	LOW	6.57										



## ROSS COUNTY

391341083172200. Local number, RO-7.

LOCATION.--Lat 39°13'41", long 83°17'22", Hydrologic Unit 05060003, Highland County well field, 1 mi west of Bainbridge.

Owner: Highland County Water Company.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 67 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 740 ft above National Geodetic Vertical Datum of 1929, from topographic map.

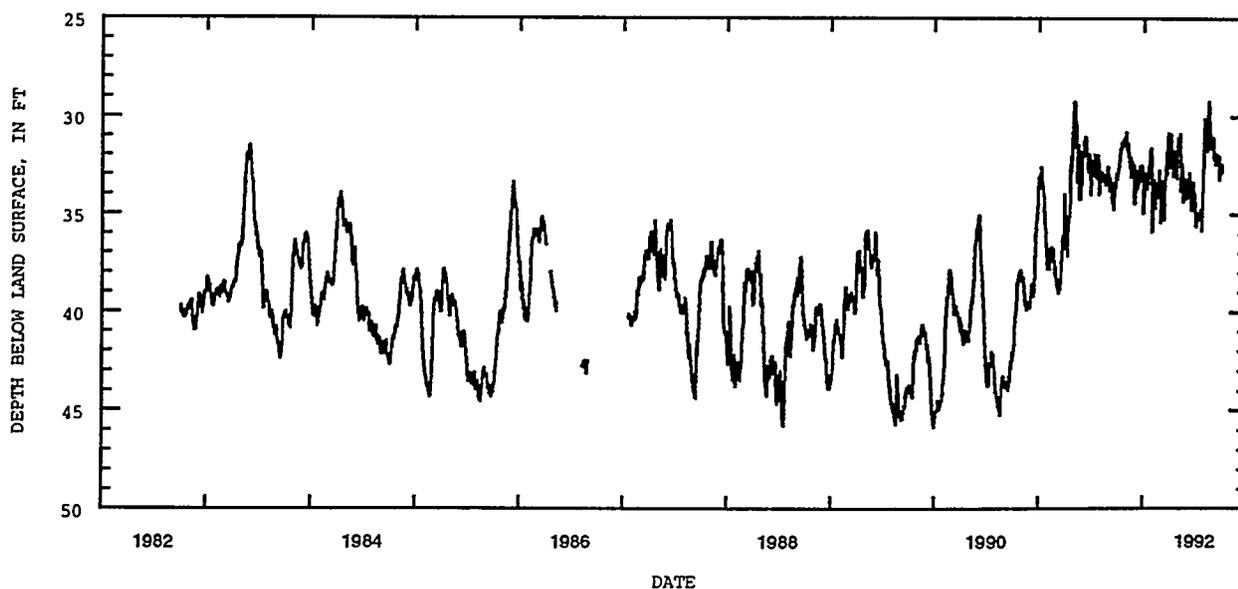
Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--February 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 45.88 ft below land-surface datum, Dec. 31, 1989;  
minimum daily low, 20.93 ft below land-surface datum, Feb. 28, 1971.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.97	30.79	34.18	33.93	34.41	34.76	32.63	31.06	34.23	35.20	30.68	32.07
2	33.26	31.13	34.50	34.97	35.20	35.47	32.55	31.21	34.24	35.41	30.82	32.02
3	33.21	31.35	34.41	34.89	35.86	34.50	31.61	31.19	33.76	35.59	31.05	32.21
4	32.89	31.65	34.03	34.49	35.81	34.06	31.41	31.30	33.51	35.66	31.40	32.07
5	32.91	31.70	33.81	33.71	34.81	33.89	30.88	31.37	33.52	35.49	31.65	31.92
6	32.81	31.45	33.75	33.43	34.55	33.29	30.98	31.62	33.58	35.35	31.62	31.97
7	32.89	31.32	33.65	33.52	33.65	33.78	31.79	30.84	33.55	35.39	31.37	32.43
8	32.51	31.41	33.56	33.50	33.54	33.85	31.66	31.25	33.01	35.29	31.43	32.45
9	32.42	31.80	33.66	33.51	33.23	34.08	31.77	32.61	32.85	35.03	31.79	32.22
10	32.18	31.92	33.74	32.85	33.64	33.68	31.68	33.85	33.24	34.95	31.70	31.89
11	31.99	32.07	33.64	33.18	34.23	33.27	31.73	33.67	33.16	35.10	30.87	31.98
12	31.88	31.87	33.05	32.89	34.63	33.91	31.80	32.86	33.30	35.17	30.16	32.07
13	31.67	32.32	32.72	33.66	34.65	34.67	33.09	32.97	33.29	34.85	29.66	31.99
14	31.80	32.28	33.11	33.67	34.57	35.34	32.97	32.88	33.39	35.06	29.20	32.10
15	31.62	32.40	33.19	33.44	33.86	35.15	32.14	32.41	34.19	35.11	29.70	32.39
16	31.63	32.64	33.48	33.52	33.83	34.19	32.04	32.81	34.77	35.10	29.89	32.29
17	31.60	32.40	33.07	33.40	33.67	33.37	32.03	32.63	34.78	35.27	30.52	32.40
18	31.43	32.09	32.55	32.67	34.20	33.13	31.84	33.45	34.79	34.86	31.15	32.17
19	31.46	33.12	33.08	32.69	34.06	33.06	31.91	34.40	34.28	34.87	31.04	31.99
20	31.27	32.79	33.22	32.47	33.79	32.87	31.90	34.26	33.78	35.06	30.86	32.08
21	31.34	32.80	32.92	32.57	33.59	32.29	31.76	33.65	33.60	35.39	31.05	32.77
22	31.38	32.30	32.87	32.63	33.57	31.83	31.83	33.71	33.37	35.85	31.19	33.26
23	31.37	32.51	32.85	32.52	33.40	33.00	31.90	34.09	33.40	35.35	31.45	32.82
24	31.22	32.46	33.16	31.87	33.39	32.82	31.80	33.91	33.78	34.90	31.70	32.66
25	31.45	32.68	33.32	31.74	33.01	31.87	33.09	33.71	33.88	34.45	31.70	32.63
26	31.45	32.56	32.46	31.84	32.72	31.88	33.13	33.91	33.91	33.28	31.44	32.50
27	31.51	32.95	32.63	31.65	33.15	31.24	31.86	33.87	34.09	33.26	31.36	32.41
28	31.41	32.88	32.85	31.60	33.55	30.82	31.81	33.60	34.18	32.06	31.53	32.44
29	31.16	32.55	32.64	32.40	33.65	31.26	31.46	33.67	34.56	30.97	31.04	32.43
30	31.21	32.47	33.05	33.26	---	30.98	31.38	33.14	34.87	30.10	31.21	32.85
31	31.25	---	33.11	33.83	---	31.46	---	33.70	---	30.70	31.21	---
MAX	33.26	33.12	34.50	34.97	35.86	35.47	33.13	34.40	34.87	35.85	31.79	33.26
CAL YR 1991	LOW 39.08											
WTR YR 1992	LOW 35.86											



## GROUND-WATER RECORDS

## ROSS COUNTY--Continued.

391913082580500. Local number, RO-8.

LOCATION.--Lat 39°19'13", long 82°58'05", Hydrologic Unit 05060003, Mead Paper wood yard in Chillicothe.

Owner: Mead Paper Corp.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 95 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 631.30 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

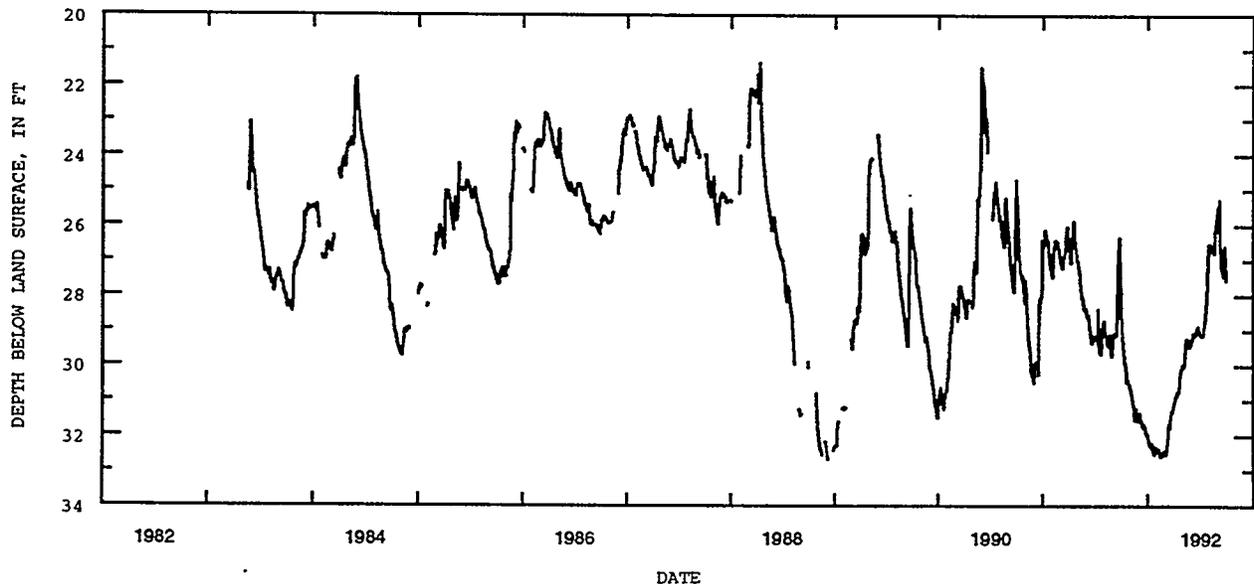
PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.65 ft below land-surface datum, Dec. 7, 1988;  
minimum daily low, 21.35 ft below land-surface datum, April 12, 1988.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.98	30.65	31.55	31.98	32.38	32.49	31.10	30.04	29.34	29.11	26.51	25.51
2	28.27	30.67	31.55	31.99	32.35	32.49	31.07	30.02	29.29	29.11	26.49	25.46
3	28.53	30.69	31.48	32.01	32.34	32.50	31.07	30.03	29.26	29.11	26.51	25.43
4	28.76	30.70	31.33	32.07	32.36	32.52	31.03	29.99	29.24	29.12	26.53	25.65
5	28.97	30.76	31.38	32.12	32.37	32.52	31.02	29.98	29.24	29.10	26.56	25.99
6	29.12	30.78	31.44	32.16	32.37	32.52	31.00	29.98	29.22	29.13	26.57	25.26
7	29.27	30.80	31.49	32.19	32.35	32.49	30.94	29.99	29.13	29.16	26.59	26.48
8	29.38	30.88	31.56	32.23	32.37	32.40	30.89	29.98	29.09	29.16	26.63	26.61
9	29.49	30.95	31.56	32.25	32.37	32.27	30.86	29.96	29.08	29.13	26.64	26.67
10	29.57	30.99	31.57	32.25	32.38	32.20	30.86	29.71	29.09	29.13	26.64	26.80
11	29.66	31.02	31.58	32.24	32.42	32.15	30.85	29.53	29.12	29.12	26.66	26.93
12	29.77	31.05	31.60	32.25	32.47	31.97	30.84	29.44	29.13	29.09	26.70	27.03
13	29.86	31.10	31.64	32.25	32.47	31.84	30.80	29.36	29.13	29.02	26.71	27.11
14	29.92	31.16	31.67	32.27	32.51	31.76	30.75	29.32	29.13	28.97	26.71	27.17
15	29.94	31.25	31.69	32.29	32.54	31.73	30.75	29.28	29.10	28.92	26.70	27.23
16	29.98	31.37	31.72	32.27	32.57	31.70	30.76	29.26	29.10	28.88	26.68	27.25
17	30.05	31.47	31.72	32.23	32.57	31.72	30.76	29.25	29.10	28.81	26.71	27.27
18	30.11	31.53	31.68	32.25	32.55	31.76	30.74	29.25	29.09	28.76	26.74	27.30
19	30.20	31.50	31.62	32.34	32.55	31.76	30.73	29.27	29.03	28.66	26.78	27.35
20	30.48	31.34	31.72	32.38	32.56	31.59	30.64	29.31	28.95	28.51	26.78	27.45
21	30.36	31.20	31.76	32.41	32.54	31.48	30.57	29.34	28.94	28.45	26.55	27.45
22	30.41	31.28	31.76	32.46	32.52	31.41	30.49	29.37	28.94	28.40	26.36	27.46
23	30.43	31.33	31.75	32.48	32.48	31.37	30.35	29.41	28.92	28.27	26.23	27.31
24	30.38	31.38	31.78	32.47	32.46	31.32	30.24	29.45	28.95	28.20	26.09	26.70
25	30.44	31.43	31.82	32.45	32.46	31.30	30.20	29.46	28.99	27.94	26.00	26.57
26	30.50	31.47	31.88	32.42	32.45	31.29	30.16	29.46	28.99	27.76	25.91	26.79
27	30.51	31.52	31.92	32.39	32.48	31.30	30.12	29.46	28.99	27.61	25.85	26.95
28	30.49	31.54	31.92	32.40	32.48	31.30	30.10	29.46	29.03	26.99	25.77	27.15
29	30.53	31.55	31.92	32.40	32.49	31.24	30.10	29.42	29.05	26.90	25.71	27.32
30	30.56	31.55	31.96	32.43	---	31.19	30.06	29.37	29.09	26.77	25.64	27.55
31	30.60	---	31.97	32.41	---	31.16	---	29.37	---	26.55	25.56	---
MAX	30.60	31.55	31.97	32.48	32.57	32.52	31.10	30.04	29.34	29.16	26.78	27.55

CAL YR 1991 LOW 31.97

WTR YR 1992 LOW 32.57



## SHELBY COUNTY

401712084103500. Local number, SH-4.

LOCATION.--Lat 40°17'12", long 84°10'35", Hydrologic Unit 05080001, State Route 47 in Sidney.

Owner: Stolle Corporation.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 280 ft, cased to 136 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1,033.72 ft above National Geodetic Vertical Datum of 1929.

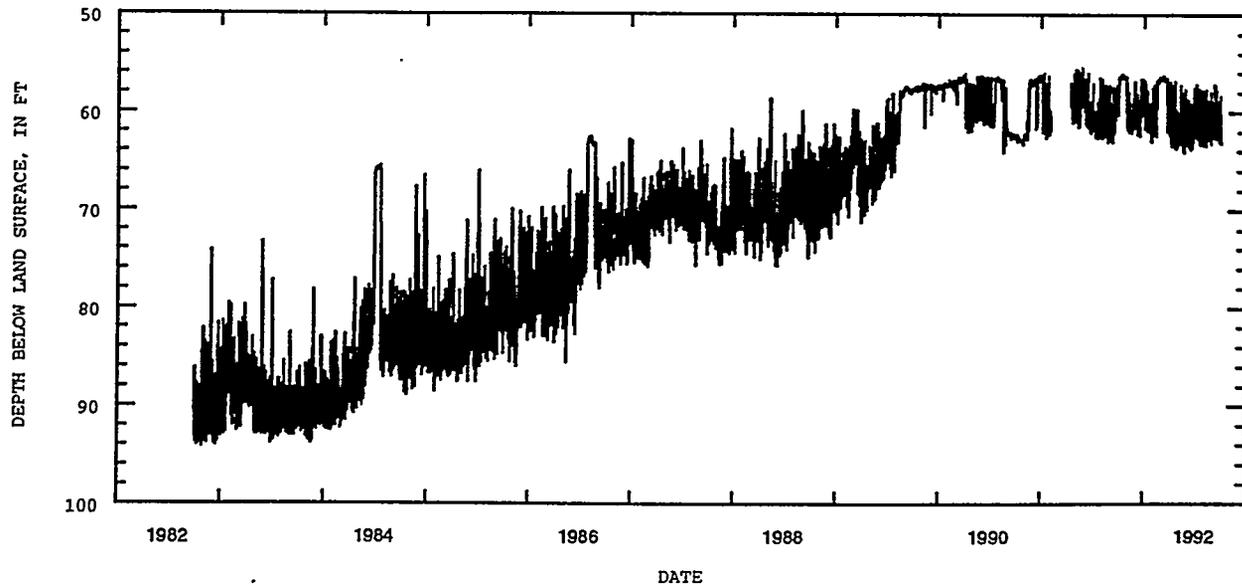
Measuring point: Top of platform 4.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 94.19 ft below land-surface datum, Oct. 26, 1982;  
minimum daily low, 55.43 ft below land-surface datum, May 26, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.19	59.97	60.03	57.53	57.57	56.68	61.85	62.72	60.82	62.17	57.77	62.24
2	60.07	57.00	60.57	61.79	57.68	56.69	61.78	60.34	62.37	61.94	58.54	62.41
3	60.31	60.10	61.17	58.75	62.36	56.72	62.35	62.07	63.35	57.81	62.75	62.30
4	57.83	61.07	59.45	56.77	61.51	56.73	56.85	62.31	63.27	57.11	62.88	62.62
5	56.35	61.84	61.54	57.26	61.61	56.72	57.53	62.54	62.82	57.52	63.21	57.65
6	56.49	60.76	60.19	61.04	61.65	56.65	62.03	61.57	58.67	62.70	63.41	57.09
7	56.52	60.92	58.13	61.20	61.35	56.47	62.06	60.86	61.10	62.36	63.29	57.61
8	56.51	60.19	58.06	61.23	57.16	56.55	62.53	61.24	63.18	62.30	57.62	62.38
9	56.47	57.91	61.01	59.73	61.23	56.55	63.42	59.89	63.18	62.40	60.09	62.35
10	56.42	59.82	62.26	59.99	61.82	56.20	62.64	57.15	63.54	62.57	62.26	62.31
11	56.28	61.59	61.60	57.76	62.17	56.43	57.34	62.06	63.56	57.47	62.86	62.18
12	56.20	62.10	61.73	58.16	62.24	56.50	58.26	63.02	63.12	57.85	62.55	57.65
13	56.34	61.60	61.65	60.82	62.27	56.59	62.59	63.26	59.01	58.05	62.84	60.52
14	56.30	61.43	59.10	60.22	61.46	56.56	62.14	62.36	60.19	62.69	62.41	62.72
15	56.07	61.56	58.84	61.96	57.80	56.76	63.08	63.21	63.21	62.62	59.92	61.86
16	56.32	61.24	61.33	59.52	56.89	56.81	62.83	58.31	63.08	63.14	58.70	62.32
17	56.38	61.45	60.98	60.95	56.89	56.64	57.53	59.57	63.65	63.34	62.69	62.34
18	56.35	61.86	61.95	59.26	56.74	56.65	56.77	62.18	63.58	57.67	62.80	61.69
19	56.49	61.97	62.42	59.16	56.67	56.44	56.90	63.43	63.64	59.75	62.56	58.85
20	56.50	61.95	59.36	61.30	56.88	56.58	62.60	63.70	61.37	62.69	62.80	58.91
21	56.40	61.67	57.25	61.75	56.95	56.70	62.86	63.85	60.95	62.59	62.38	61.91
22	56.32	61.50	57.90	61.91	56.91	56.48	63.52	64.10	62.95	62.66	59.52	62.27
23	56.34	59.88	57.18	61.94	56.71	56.61	63.73	58.28	63.05	63.18	57.84	62.31
24	56.35	58.52	56.74	60.86	56.66	61.50	63.16	57.62	61.43	63.32	62.67	63.06
25	56.38	60.38	56.80	60.02	56.60	61.42	59.70	58.20	60.75	60.18	63.29	62.58
26	56.40	61.73	60.05	58.92	56.52	62.01	59.96	62.85	59.35	57.79	62.26	61.19
27	56.34	61.52	60.14	62.99	56.42	61.35	62.59	62.03	57.43	62.41	62.54	58.23
28	56.40	57.21	57.04	62.65	56.39	57.74	63.50	63.03	58.20	62.61	61.77	62.13
29	56.42	56.99	56.57	61.60	56.70	57.26	63.32	61.76	62.38	62.98	60.70	62.75
30	56.44	56.84	57.36	61.60	---	61.21	62.82	58.56	62.55	63.35	58.85	63.11
31	56.32	---	57.04	61.38	---	61.34	---	59.43	---	63.16	61.24	---
MAX	60.31	62.10	62.42	62.99	62.36	62.01	63.73	64.10	63.65	63.35	63.41	63.11
CAL YR 1991	LOW 63.09											
WTR YR 1992	LOW 64.10											



## GROUND-WATER RECORDS

## STARK COUNTY

404939081203800. Local number, ST-5A.

LOCATION.--Lat 40°49'39", long 81°20'38", Hydrologic Unit 05040001, Northeast well field off Harrisburg Rd, Canton.

Owner: Canton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 132 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1060 ft above National Geodetic Vertical Datum of 1929, from topographic map.

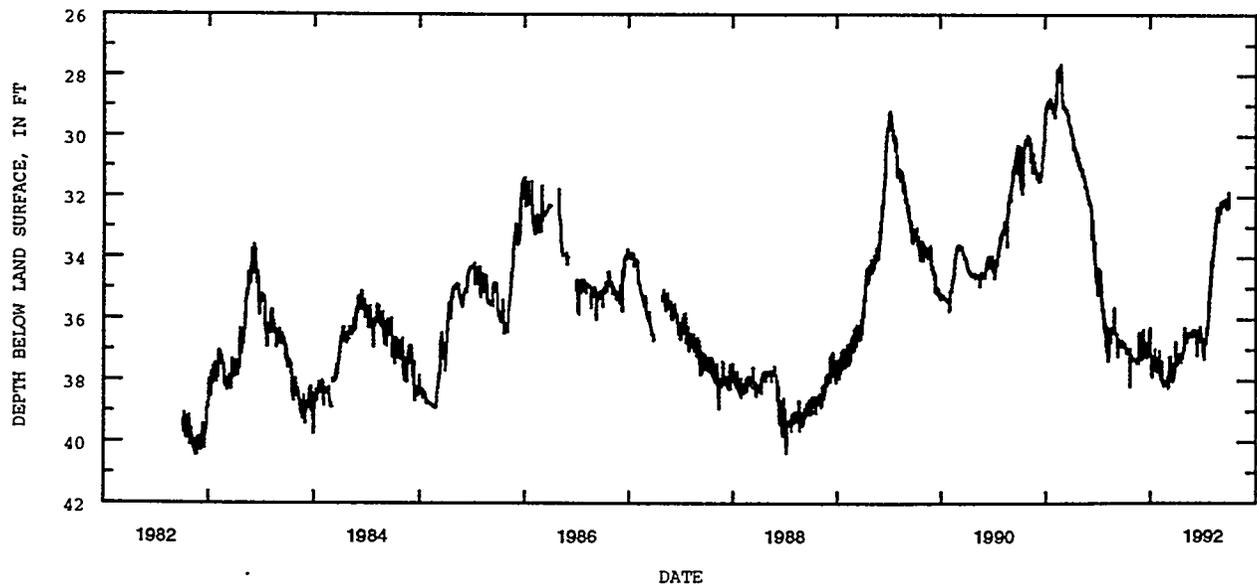
Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.00 ft below land-surface datum, Feb. 10, 1956;  
minimum daily low, 26.13 ft below land-surface datum, May 18, 1964.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.83	37.29	37.25	36.25	37.77	37.97	37.45	36.72	36.36	37.06	34.35	32.54
2	36.85	37.30	37.27	37.10	37.74	37.86	37.46	36.72	36.40	36.75	34.05	32.25
3	36.88	37.30	37.33	37.14	37.03	38.10	37.50	36.69	36.39	36.66	34.30	32.24
4	36.87	37.31	37.28	37.24	37.74	38.18	37.50	36.73	36.38	36.73	34.29	32.26
5	36.88	37.31	37.20	37.28	37.78	38.21	37.41	36.70	36.39	37.10	34.03	32.24
6	36.92	37.32	36.54	37.80	37.85	38.18	37.20	36.68	36.40	37.31	33.93	32.20
7	36.95	37.33	36.40	37.90	37.92	38.05	37.40	36.70	36.39	36.88	33.83	32.20
8	36.95	37.35	36.33	37.45	37.96	37.35	37.43	36.64	36.37	36.81	33.72	32.29
9	36.98	37.34	36.99	37.52	37.84	37.20	37.41	36.63	36.40	36.82	33.61	32.23
10	37.10	37.34	37.02	37.54	37.35	37.77	37.33	36.60	36.40	36.82	33.49	32.23
11	37.10	37.37	37.15	37.55	38.00	37.82	37.11	36.54	37.18	36.84	33.34	32.28
12	37.10	37.35	37.23	37.54	37.96	37.66	37.34	36.55	36.62	36.80	33.20	32.28
13	36.98	37.33	37.24	37.56	37.96	37.80	37.35	36.51	36.62	36.79	33.38	32.28
14	36.98	37.35	37.27	37.55	38.05	37.22	37.35	36.53	36.57	36.62	33.02	32.28
15	36.98	37.35	37.25	37.62	38.05	37.82	37.35	36.50	36.55	36.25	32.92	32.29
16	37.00	37.40	36.75	37.58	38.10	37.77	37.36	36.53	36.62	36.36	32.84	32.28
17	37.01	37.38	37.15	36.95	38.10	37.53	37.37	36.50	36.66	36.50	32.76	32.23
18	37.02	37.38	37.18	37.50	38.12	37.88	37.34	36.50	36.68	36.25	32.69	32.23
19	37.04	37.43	37.25	37.54	38.10	37.88	37.29	36.48	36.55	36.25	32.62	32.05
20	37.04	37.44	37.25	37.65	38.15	38.00	37.22	36.46	36.57	36.15	32.53	32.23
21	37.03	37.43	36.83	37.68	38.05	37.99	37.23	36.48	36.56	35.89	32.42	32.24
22	38.22	36.80	36.77	37.65	37.99	37.99	37.23	36.47	36.44	35.39	32.45	32.35
23	37.55	36.60	36.77	37.74	38.04	37.86	37.17	36.45	36.23	35.51	32.32	32.35
24	37.30	36.45	36.73	37.62	38.11	37.42	37.15	36.47	36.51	35.65	32.40	32.38
25	37.25	36.73	37.07	37.33	38.13	37.75	37.07	36.44	36.51	35.18	32.81	32.38
26	37.24	36.43	37.05	37.31	38.10	37.75	37.05	36.57	36.45	35.19	---	32.37
27	37.27	37.05	36.50	37.64	38.17	37.77	36.99	36.57	36.61	34.85	---	32.32
28	37.24	37.17	36.36	37.66	38.13	37.62	36.98	36.43	36.63	35.02	---	32.30
29	37.28	37.15	36.69	37.74	38.02	36.90	36.68	36.40	36.63	34.58	---	32.37
30	37.28	37.20	36.57	37.64	---	36.74	36.28	36.37	36.75	34.66	---	31.87
31	37.25	---	36.38	37.77	---	36.90	---	36.37	---	34.12	32.51	---
MAX	38.22	37.44	37.33	37.90	38.17	38.21	37.50	36.73	37.18	37.31	34.35	32.54
CAL YR 1991	LOW	38.22										
WTR YR 1992	LOW	38.22										



STARK COUNTY--Continued

405211081253500. Local number, ST-27.

LOCATION.--Lat 40°52'11", long 81°25'35", Hydrologic Unit 05040001, Dresler Rd near North Canton.

Owner: North Canton Water Department

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 55 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1060 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 2.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

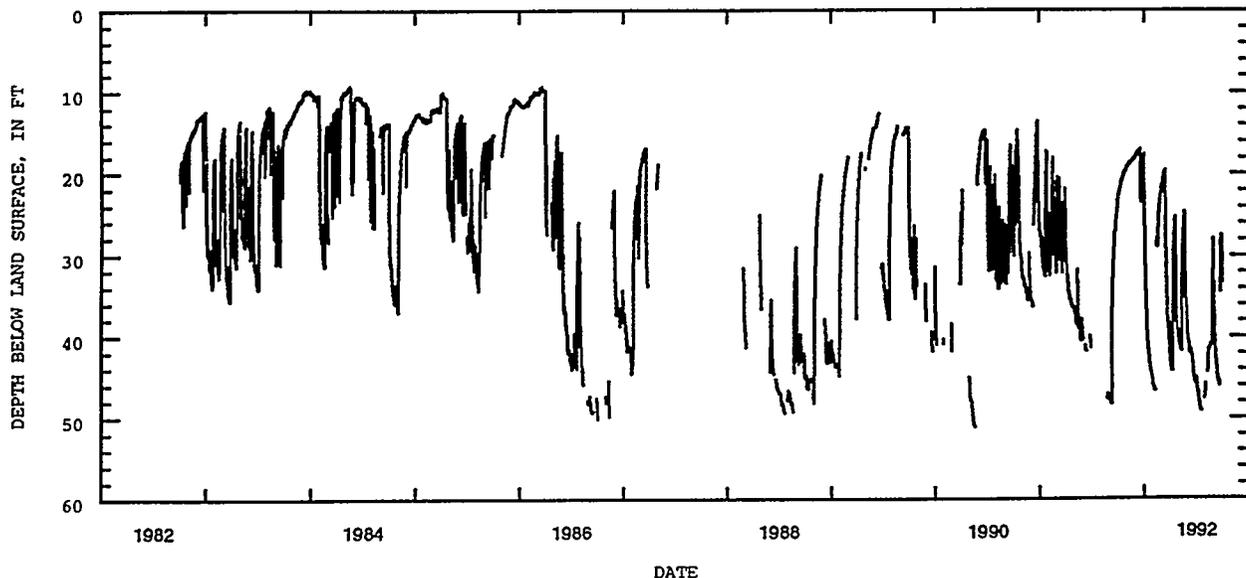
PERIOD OF RECORD.--April 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 51.10 ft below land-surface datum, May 20, 1990;  
minimum daily low, 7.10 ft below land-surface datum, June 15, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.10	19.40	18.10	21.30	45.65	22.40	40.95	40.05	39.05	45.00	46.60	36.00
2	23.55	19.35	18.10	21.40	45.80	22.05	41.55	40.20	39.60	45.35	45.90	37.90
3	23.30	19.30	18.00	21.30	45.95	21.80	42.00	40.40	40.00	45.70	---	39.35
4	23.05	19.25	17.90	25.00	46.10	21.55	42.60	40.60	40.35	45.95	---	40.45
5	22.80	19.20	17.85	28.15	46.20	21.40	43.10	40.70	40.60	46.30	---	41.30
6	22.60	19.10	17.75	30.40	46.30	21.20	43.55	41.00	40.60	46.65	---	41.95
7	22.40	19.05	17.70	32.30	46.40	21.00	43.80	41.25	41.05	46.85	---	42.55
8	22.20	19.05	17.60	33.85	46.50	20.75	43.95	41.40	41.70	46.90	---	43.00
9	22.05	19.00	17.55	35.10	46.60	20.60	44.25	41.55	42.05	47.15	44.40	43.45
10	21.90	18.95	17.50	36.25	46.65	20.40	44.25	41.70	42.10	47.70	44.05	43.85
11	21.75	18.90	17.45	37.30	---	20.15	37.70	41.90	41.95	48.00	43.00	44.15
12	21.50	18.80	17.45	38.25	---	20.00	33.40	38.40	41.75	48.00	42.40	44.45
13	21.35	18.80	17.40	39.05	---	19.90	31.15	33.50	41.70	48.05	42.05	44.65
14	21.20	18.75	17.35	39.80	---	19.80	29.60	31.00	41.75	48.50	41.55	44.95
15	21.00	18.70	17.30	40.45	---	19.70	28.40	29.40	42.10	48.80	41.55	45.15
16	20.95	18.70	17.25	41.00	28.80	21.10	27.50	28.20	42.30	49.00	41.50	45.25
17	20.95	18.65	17.20	41.45	27.90	24.85	26.65	27.25	42.35	49.10	41.45	45.35
18	20.85	18.65	17.15	41.85	29.00	28.00	26.00	26.50	42.45	49.15	41.40	45.45
19	20.65	18.55	17.15	42.25	28.50	30.40	25.35	25.80	42.95	49.15	41.30	45.55
20	20.50	18.55	18.80	42.60	27.00	32.10	28.50	25.10	43.60	---	41.25	45.75
21	20.40	18.50	22.60	42.90	26.30	33.60	31.80	24.60	44.10	---	41.05	45.95
22	20.30	18.45	23.60	43.25	25.60	34.80	34.20	25.20	44.45	---	41.05	46.00
23	20.20	18.45	22.10	43.55	25.00	35.80	35.95	28.20	44.75	---	41.00	---
24	20.10	18.40	20.20	43.85	24.50	36.70	37.20	30.80	44.95	---	41.00	34.50
25	20.05	18.35	19.40	44.05	24.00	37.40	38.10	33.40	45.20	---	40.95	31.25
26	19.95	18.35	19.00	44.30	23.60	37.85	38.70	35.00	45.40	---	40.95	29.00
27	19.90	18.30	18.60	44.50	23.20	38.20	39.10	35.70	45.55	---	33.50	27.45
28	19.80	18.25	18.40	44.70	22.70	38.60	39.40	36.05	45.65	---	30.05	28.30
29	19.70	18.20	18.10	44.90	22.55	39.00	39.60	36.85	45.90	47.55	28.00	31.10
30	19.65	18.15	17.85	45.05	---	39.45	39.90	37.75	45.80	47.45	---	33.30
31	19.55	---	17.80	45.50	---	40.25	---	38.50	---	47.10	33.35	---
MAX	24.10	19.40	23.60	45.50	46.65	40.25	44.25	41.90	45.90	49.15	46.60	46.00

CAL YR 1991    LOW 48.25  
WTR YR 1992    LOW 49.15



## TRUMBULL COUNTY

411604080505600. Local number, T-3

LOCATION.--Lat 41°16'04", long 80°50'56", Hydrologic Unit 05030103, N. River Rd near Warren.

Owner: Copperweld Steel Corp.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 125 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 890 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

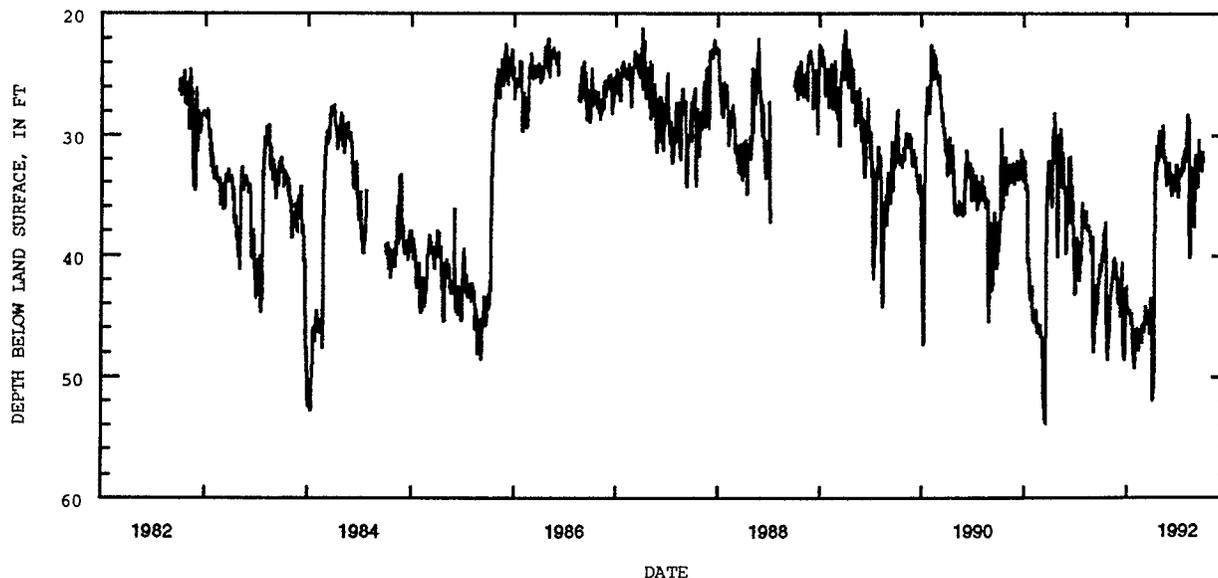
PERIOD OF RECORD.--September 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.30 ft below land-surface datum, July 2, 1975;  
minimum daily low, 19.35 ft below land-surface datum, Feb. 21, 1982.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.62	46.29	42.91	42.62	47.81	45.57	46.32	30.70	32.79	35.11	30.29	31.92
2	41.51	44.82	43.43	43.68	47.02	45.74	49.39	30.85	33.20	35.21	29.10	31.59
3	41.14	44.07	44.02	44.37	46.93	45.91	51.97	30.82	33.79	34.77	28.45	33.63
4	41.19	44.16	43.98	44.56	46.45	45.92	51.62	30.59	33.71	34.71	28.21	34.50
5	40.91	43.64	43.45	44.46	46.35	46.43	50.84	31.71	33.23	32.79	30.66	34.03
6	40.18	43.27	42.21	44.44	46.28	45.94	50.69	31.87	33.21	33.01	30.76	33.67
7	39.79	43.03	41.85	44.69	46.00	45.41	50.96	31.39	33.61	32.83	30.75	34.01
8	40.16	42.36	41.89	44.56	46.05	44.67	48.30	29.66	34.32	33.13	30.21	34.34
9	40.45	42.83	43.22	44.55	45.99	44.26	43.53	29.10	35.05	33.45	28.59	34.35
10	40.12	42.77	44.94	44.93	46.77	44.25	39.61	30.09	35.00	33.31	36.92	34.15
11	39.48	41.90	45.07	44.70	47.24	44.44	36.63	30.89	34.73	33.47	39.90	33.04
12	39.04	41.64	44.84	44.66	47.58	45.02	34.02	31.48	34.87	33.13	40.16	31.68
13	38.38	41.37	43.71	44.93	47.70	45.64	32.29	31.81	34.41	32.84	39.75	30.55
14	38.45	41.83	42.53	45.03	47.87	45.60	33.37	31.70	34.43	33.27	38.33	30.29
15	37.94	40.83	41.32	45.14	47.57	45.49	33.74	32.30	34.30	33.16	35.66	32.04
16	38.54	40.46	40.54	45.62	46.88	45.34	32.80	31.81	34.02	32.45	33.41	32.43
17	38.61	40.41	42.66	45.69	46.96	45.19	32.24	31.86	34.71	32.27	32.61	32.72
18	38.17	40.43	44.69	45.52	46.62	44.95	31.35	31.99	34.63	32.08	33.43	32.75
19	37.43	40.16	45.31	45.03	46.67	44.79	30.81	32.43	34.42	31.70	33.69	32.62
20	37.25	41.57	47.05	44.70	46.73	44.86	31.23	33.24	33.79	32.53	34.61	31.29
21	41.58	41.92	47.78	44.95	46.82	44.57	31.65	33.80	33.29	33.07	35.07	31.46
22	44.51	41.63	48.04	46.46	46.33	45.28	32.19	34.09	33.29	32.93	34.66	31.32
23	46.91	41.41	48.57	47.18	45.78	46.50	31.44	34.23	33.23	32.56	34.46	31.37
24	47.62	40.54	48.55	48.14	46.40	46.44	30.98	33.96	32.84	31.96	36.21	33.06
25	48.35	41.29	48.16	48.15	47.25	45.23	30.42	33.20	32.39	31.43	37.43	32.72
26	48.59	41.14	47.69	48.24	46.72	44.48	30.27	32.89	32.70	31.08	37.57	31.81
27	48.31	41.35	46.48	48.65	46.50	44.10	29.58	32.90	32.63	31.29	37.66	31.28
28	47.10	42.14	45.38	49.04	46.31	43.53	30.43	33.17	32.63	31.46	36.78	31.91
29	47.12	41.78	43.51	49.29	46.05	43.56	30.27	33.14	33.51	32.15	34.24	32.24
30	46.75	43.09	42.87	49.23	---	43.55	30.13	32.84	34.81	32.08	32.23	31.87
31	46.32	---	42.69	48.35	---	44.94	---	32.20	---	31.59	31.61	---
MAX	48.59	46.29	48.57	49.29	47.87	46.50	51.97	34.23	35.05	35.21	40.16	34.50

CAL YR 1991 LOW 53.80

WTR YR 1992 LOW 51.97



## TUSCARAWAS COUNTY

403207081293800. Local number, TU-3.

LOCATION.--Lat 40°32'07", long 81°29'38", Hydrologic Unit 05040001, in the northwest part of Dover.

Owner: Dover City Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 62 ft, cased.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 880 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1960 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 19.35 ft below land-surface datum, Nov. 29-30, Dec. 6-8, 1962;  
minimum daily low, 3.20 ft below land-surface datum, July 15, 1969.WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 31, 1991	12.66	Jan. 31, 1992	12.92	Apr. 30, 1992	10.90	July 31, 1992	9.79
Dec. 2, 1991	12.93	Feb. 28, 1992	12.98	May 28, 1992	11.07	Aug. 31, 1992	9.81
Jan. 2, 1992	12.62	Apr. 1, 1992	11.23	June 30, 1992	12.04	Sept. 30, 1992	10.18

## TUSCARAWAS COUNTY--Continued.

403557081313600. Local number, TU-4.

LOCATION.--Lat 40°35'57", long 81°31'36", Hydrologic Unit 05040001, near Fire Dept. building in Strasburg.

Owner: Strasburg Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 42.5 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 920 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

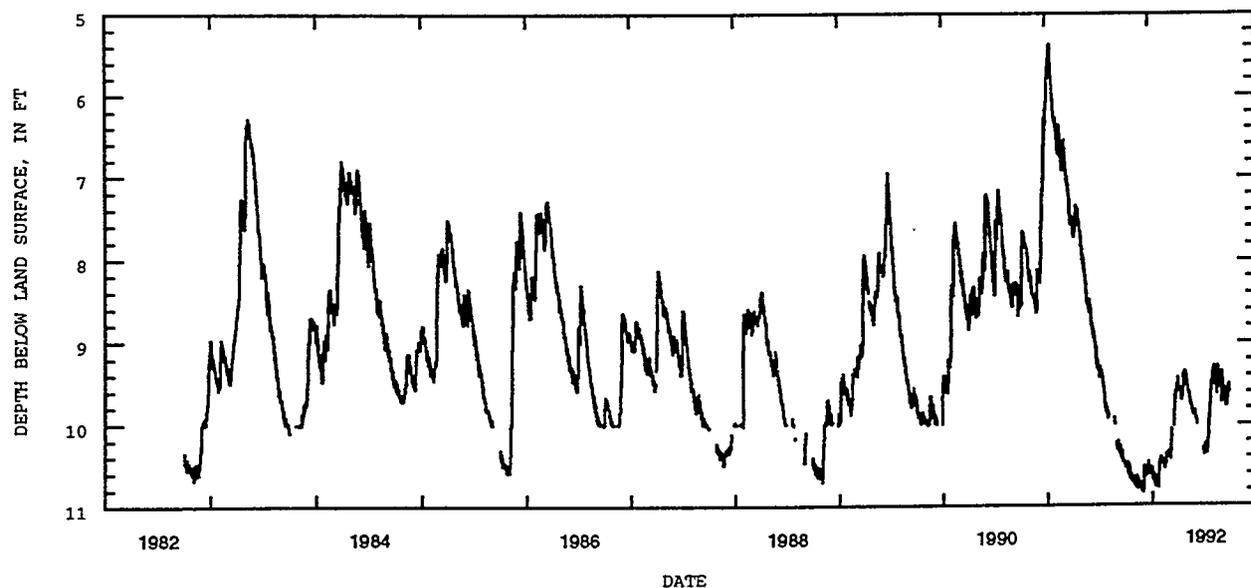
PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 10.85 ft below land-surface datum, Dec. 2, 1991;  
minimum daily low, 4.05 ft below land-surface datum, July 13, 1969.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.53	10.72	10.84	10.54	10.40	10.37	9.43	9.45	9.88	10.38	9.33	9.73
2	10.50	10.74	10.85	10.67	10.47	10.32	9.53	9.48	9.90	10.31	9.33	9.35
3	10.52	10.64	10.78	10.63	10.46	10.36	9.53	9.48	9.92	10.31	9.32	9.41
4	10.53	10.77	10.54	10.68	10.47	10.37	9.55	9.50	9.93	10.30	9.36	9.50
5	10.54	10.74	10.51	10.70	10.45	10.42	9.55	9.58	9.94	10.33	9.40	9.50
6	10.55	10.76	10.53	10.60	10.43	10.44	9.56	9.60	9.95	10.34	9.29	9.53
7	10.47	10.77	10.56	10.71	10.47	10.44	9.57	9.58	9.97	10.23	9.45	9.58
8	10.55	10.78	10.53	10.72	10.45	10.28	9.57	9.60	10.00	10.31	9.45	9.55
9	10.60	10.64	10.60	10.62	10.48	10.20	9.59	9.62	---	10.35	9.46	9.61
10	10.61	10.78	10.61	10.76	10.52	10.23	9.62	9.63	---	10.30	9.48	9.64
11	10.62	10.77	10.63	10.63	10.50	10.07	9.63	9.63	---	10.37	9.40	9.64
12	10.49	10.69	10.65	10.76	10.52	---	9.65	9.65	---	10.27	9.55	9.66
13	10.62	10.77	10.52	10.70	10.54	---	9.70	9.68	---	10.31	9.53	9.68
14	10.63	10.68	10.56	10.76	10.54	---	9.65	9.70	---	10.21	9.58	9.70
15	10.52	10.76	10.56	10.77	10.55	---	9.70	9.73	---	10.25	9.63	9.74
16	10.65	10.77	10.56	10.77	10.52	---	9.71	9.73	---	10.17	9.45	9.75
17	10.64	10.70	10.58	10.67	10.45	---	9.64	9.75	---	10.15	9.29	9.78
18	10.65	10.78	10.59	10.76	10.49	---	9.65	9.78	---	9.98	9.29	9.75
19	10.61	10.78	10.46	10.76	10.49	10.02	9.50	9.78	---	9.88	9.33	9.78
20	10.68	10.78	10.60	10.66	10.41	9.94	9.39	9.80	---	10.00	9.33	9.77
21	10.68	10.79	10.60	10.77	10.37	9.73	9.43	9.83	---	9.84	9.40	9.70
22	10.68	10.79	10.61	10.76	10.38	9.65	9.45	9.85	---	9.84	9.40	9.75
23	10.69	10.75	10.62	10.77	10.40	9.70	9.40	9.85	---	9.81	9.42	9.63
24	10.71	10.79	10.57	10.67	10.40	9.64	9.38	9.85	---	9.70	9.48	9.55
25	10.65	10.83	10.60	10.52	10.37	9.60	9.35	9.86	---	9.66	9.51	9.52
26	10.70	10.72	10.60	10.50	10.37	9.62	9.38	9.88	---	9.52	9.52	9.53
27	10.72	10.82	10.54	10.46	10.39	9.63	9.42	9.88	---	9.52	9.55	9.50
28	10.70	10.83	10.61	10.46	10.39	9.55	9.43	9.85	---	9.47	9.57	9.57
29	10.72	10.83	10.63	10.45	10.37	9.58	9.37	9.90	10.30	9.48	9.39	9.60
30	10.75	10.83	10.53	10.45	---	9.57	9.42	9.90	10.30	9.49	9.39	9.60
31	10.70	---	10.66	10.46	---	9.57	---	9.83	---	9.42	9.64	---
MAX	10.75	10.83	10.85	10.77	10.55	10.44	9.71	9.90	10.30	10.38	9.64	9.78

CAL YR 1991 LOW 10.85

WTR YR 1992 LOW 10.85



TUSCARAWAS COUNTY--Continued

403653081321800. Local number, TU-1.

LOCATION.--Lat 40°36'53", long 81°32'18", Hydrologic Unit 05040001, 1.3 mi north of Strasburg.

Owner: Ray Libert.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 4 in., depth 23 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 928.24 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 0.90 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

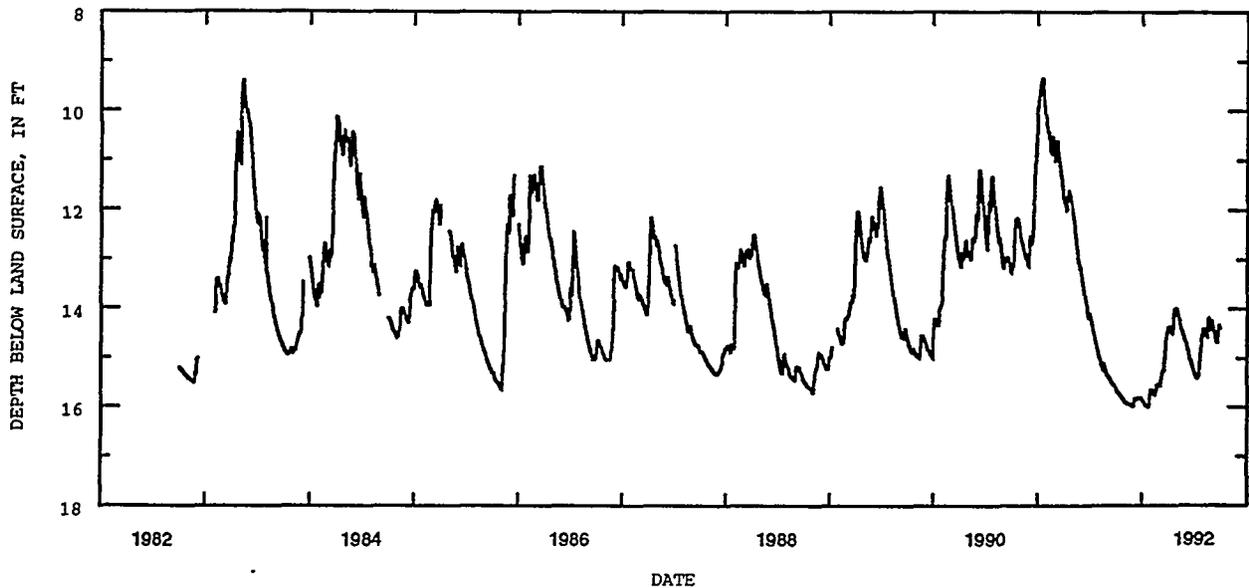
PERIOD OF RECORD.--July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 16.00 ft below land-surface datum, Jan. 23, 1992;  
minimum daily low, 6.64 ft below land-surface datum, July 14, 1969.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.63	15.89	15.99	15.86	15.65	15.53	14.44	14.03	14.65	15.28	14.52	14.26
2	15.64	15.89	15.99	15.87	15.65	15.53	14.42	14.05	14.66	15.30	14.46	14.28
3	15.65	15.89	15.97	15.87	15.65	15.53	14.40	14.06	14.68	15.31	14.42	14.33
4	15.66	15.89	15.92	15.88	15.65	15.53	14.40	14.07	14.70	15.33	14.42	14.36
5	15.67	15.90	15.86	15.88	15.66	15.53	14.38	14.10	14.72	15.33	14.42	14.37
6	15.68	15.90	15.84	15.89	15.66	15.54	14.38	14.13	14.75	15.34	14.43	14.40
7	15.68	15.91	15.83	15.90	15.67	15.53	14.38	14.15	14.77	15.35	14.43	14.43
8	15.69	15.92	15.83	15.91	15.68	15.50	14.39	14.16	14.80	15.37	14.44	14.46
9	15.70	15.93	15.83	15.93	15.70	15.45	14.40	14.20	14.82	15.39	14.44	14.48
10	15.71	15.93	15.83	15.94	15.70	15.41	14.42	14.23	14.84	15.40	14.44	14.50
11	15.71	15.93	15.84	15.95	15.72	15.38	14.44	14.24	14.87	15.41	14.47	14.52
12	15.71	15.93	15.84	15.95	15.73	15.34	14.48	14.26	14.90	15.41	14.50	14.53
13	15.72	15.93	15.84	15.96	15.74	15.32	14.48	14.30	14.92	15.41	14.51	14.56
14	15.73	15.93	15.84	15.97	15.74	15.30	14.48	14.33	14.95	15.40	14.55	14.59
15	15.74	15.93	15.83	15.97	15.75	15.28	14.50	14.36	14.99	15.39	14.56	14.62
16	15.75	15.93	15.81	15.97	15.75	15.27	14.51	14.38	15.00	15.38	14.46	14.64
17	15.76	15.93	15.80	15.97	15.73	15.26	14.51	14.42	15.02	15.34	14.32	14.66
18	15.76	15.94	15.80	15.97	15.67	15.26	14.48	14.43	15.03	15.25	14.23	14.68
19	15.77	15.94	15.80	15.98	15.64	15.25	14.37	14.43	15.04	15.18	14.21	14.68
20	15.78	15.94	15.80	15.98	15.62	15.15	14.24	14.45	15.05	15.08	14.24	14.68
21	15.79	15.94	15.80	15.99	15.60	15.00	14.16	14.47	15.08	15.04	14.28	14.67
22	15.80	15.94	15.80	15.99	15.59	14.88	14.10	14.49	15.10	15.00	14.30	14.65
23	15.81	15.95	15.80	16.00	15.57	14.82	14.08	14.52	15.11	14.92	14.34	14.53
24	15.81	15.95	15.80	15.99	15.56	14.75	14.04	14.53	15.14	14.88	14.37	14.43
25	15.82	15.96	15.80	15.94	15.56	14.70	14.03	14.53	15.16	14.82	14.39	14.36
26	15.82	15.97	15.80	15.85	15.56	14.64	14.01	14.55	15.17	14.73	14.42	14.34
27	15.83	15.97	15.81	15.78	15.56	14.60	14.01	14.57	15.20	14.64	14.43	14.35
28	15.84	15.97	15.82	15.74	15.56	14.58	14.00	14.60	15.22	14.56	14.43	14.37
29	15.85	15.98	15.83	15.70	15.53	14.52	14.01	14.63	15.25	14.55	14.38	14.39
30	15.86	15.98	15.84	15.67	---	14.50	14.02	14.64	15.26	14.55	14.29	14.41
31	15.89	---	15.85	15.66	---	14.48	---	14.64	---	14.54	14.23	---
MAX	15.89	15.98	15.99	16.00	15.75	15.54	14.51	14.64	15.26	15.41	14.56	14.68

CAL YR 1991 LOW 15.99  
WTR YR 1992 LOW 16.00



## TUSCARAWAS COUNTY--Continued.

403823081324200. Local number, TU-5.

LOCATION.--Lat 40°38'23", long 81°32'42", Hydrologic Unit 05040001, Sugar Creek well field near Strasburg.

Owner: Canton Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 937.93 ft above National Geodetic Vertical Datum of 1929.

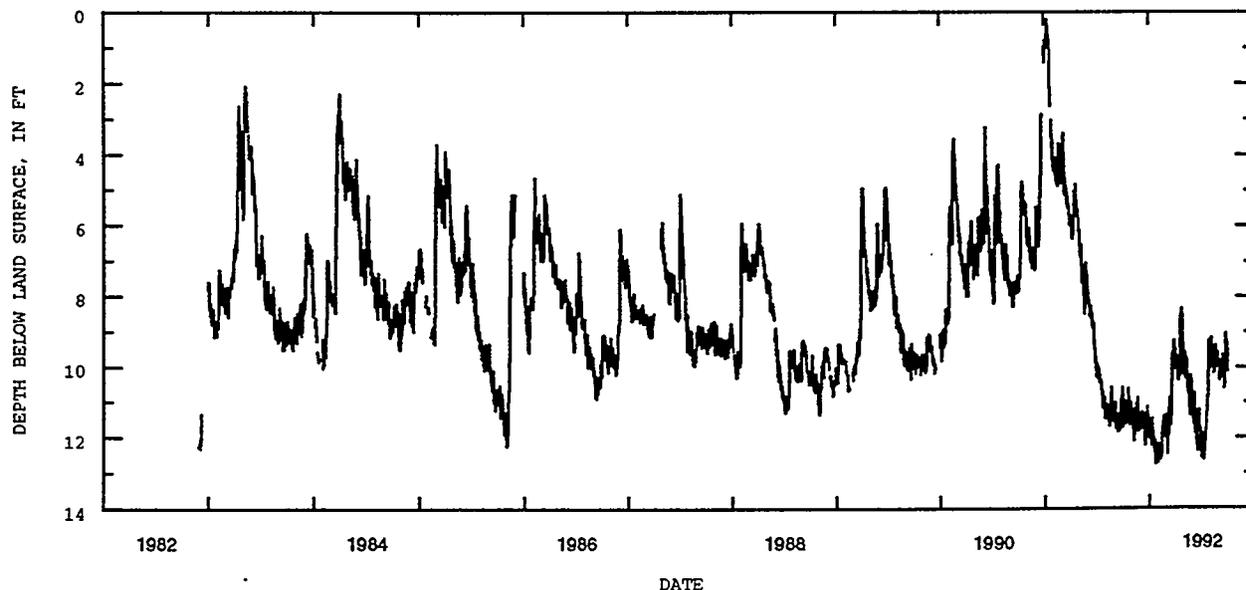
Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 12.76 ft below land-surface datum, Jan. 24, 1991;  
minimum daily low, 0.20 ft below land-surface datum, Jan. 13, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.01	11.32	11.56	11.44	12.33	11.67	9.48	9.87	11.03	12.36	9.88	10.30
2	11.72	11.38	11.60	11.77	12.16	11.72	9.61	10.20	11.08	12.57	9.48	10.40
3	11.65	11.58	11.77	12.05	12.26	11.78	9.81	10.27	10.89	12.28	9.37	10.17
4	11.57	11.65	11.57	11.77	12.38	12.29	9.65	9.57	11.34	12.52	9.17	10.21
5	10.97	11.56	11.70	11.61	12.27	12.27	9.79	9.64	11.62	11.88	9.63	10.05
6	10.97	11.72	11.40	11.65	12.35	12.49	9.83	9.60	11.24	12.15	9.70	10.05
7	11.03	11.73	11.27	11.78	12.33	12.24	9.91	10.22	10.74	12.03	9.74	10.08
8	11.20	11.74	11.55	11.98	12.47	11.78	9.94	10.34	11.30	12.55	9.81	9.91
9	11.31	12.10	11.59	12.23	12.30	11.71	10.34	9.74	11.85	12.62	10.02	10.03
10	11.63	11.76	11.42	12.14	12.39	11.93	10.10	9.80	11.89	12.48	9.84	10.18
11	11.56	11.18	11.33	11.98	12.38	11.47	10.15	9.81	11.56	12.33	10.13	9.98
12	11.25	11.83	11.50	11.75	12.63	10.88	10.00	10.12	11.60	12.38	10.20	10.03
13	11.37	11.72	11.55	11.45	12.54	11.04	10.40	10.21	11.76	12.09	10.05	9.70
14	11.50	11.45	11.76	12.07	12.48	11.04	10.14	10.43	11.77	12.27	10.09	9.71
15	11.28	11.82	11.33	12.13	12.45	11.15	10.18	10.57	12.11	11.93	9.97	10.31
16	11.42	11.83	11.89	11.97	11.93	11.13	10.25	10.65	11.85	11.95	10.13	10.13
17	11.47	11.53	11.97	12.17	11.80	11.27	10.25	10.67	12.10	11.56	9.50	10.20
18	10.95	11.02	12.23	12.18	11.83	11.66	9.53	10.78	12.40	11.60	9.37	10.26
19	11.15	11.13	12.16	12.30	11.57	11.13	8.93	10.79	11.93	10.99	9.51	10.60
20	10.60	11.16	11.93	12.07	11.89	10.55	8.58	10.83	11.75	10.98	9.76	10.43
21	11.12	11.08	11.43	12.24	11.40	10.23	9.00	10.94	11.63	11.25	9.92	10.17
22	10.88	11.43	11.80	12.33	11.41	9.70	8.50	11.37	11.19	10.83	9.97	9.80
23	11.04	10.86	11.87	12.54	11.55	9.80	8.48	11.17	11.26	10.88	10.00	10.00
24	11.65	11.25	11.58	12.76	11.99	9.85	8.51	10.62	11.80	10.76	9.72	9.05
25	11.57	11.72	11.45	12.65	11.70	9.60	8.33	10.23	11.78	10.47	9.77	9.86
26	11.01	11.83	11.12	12.37	11.85	9.74	8.65	10.50	11.80	9.80	9.63	9.23
27	11.05	11.83	11.98	12.21	11.60	9.76	9.15	10.35	12.15	9.24	9.58	9.37
28	11.14	11.73	11.48	12.47	11.61	9.41	9.48	10.46	11.75	9.54	9.98	9.42
29	11.00	11.50	11.51	12.55	11.36	9.24	9.45	10.95	11.96	9.76	9.86	9.57
30	11.30	11.40	11.38	12.46	---	10.07	9.77	11.08	12.14	10.02	---	10.12
31	11.53	---	11.91	12.72	---	9.60	---	10.73	---	10.03	10.00	---
MAX	11.72	12.10	12.23	12.76	12.63	12.49	10.40	11.37	12.40	12.62	10.20	10.60
CAL YR 1991	LOW	12.23										
WTR YR 1992	LOW	12.76										



## UNION COUNTY

402010083321900. Local number, U-5.

LOCATION.--Lat 40°20'10", long 83°32'19", Hydrologic Unit 05060001, east of East Liberty.

Owner: Honda of America.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 145 ft, cased to 98 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface is 1085 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 4.00 ft. above land-surface datum.

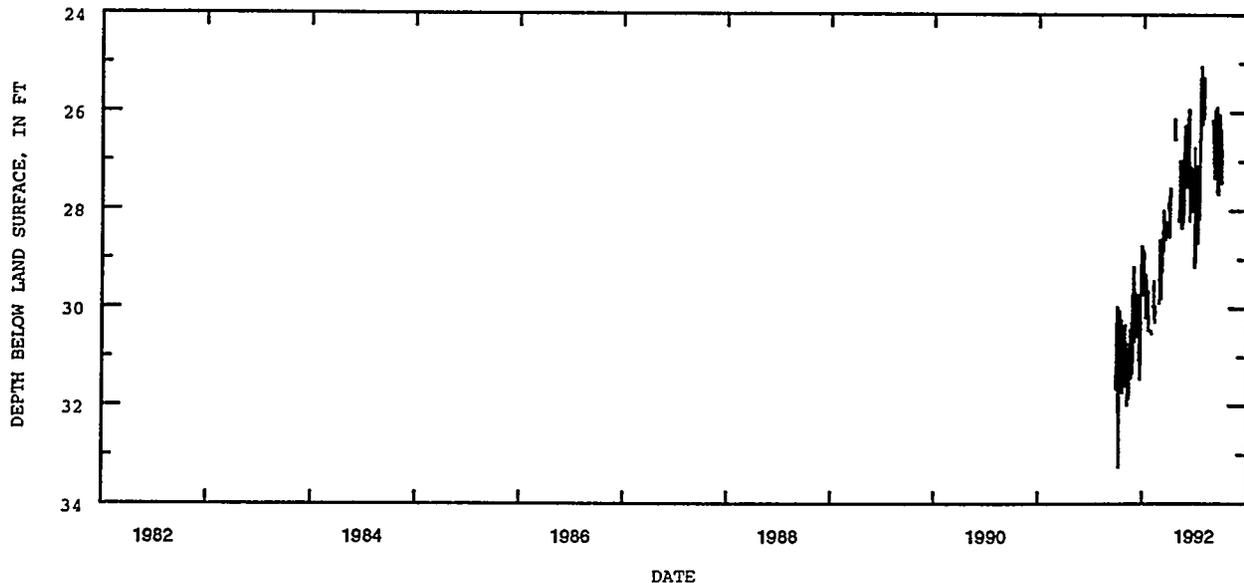
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.25 ft below land-surface datum, Oct. 10, 1991;  
minimum daily low, 25.05 ft below land-surface datum, July 19, 1992.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.64	31.62	29.15	28.80	---	29.30	27.85	---	---	28.95	---	26.31
2	31.38	31.47	29.30	29.12	---	28.73	28.18	---	---	28.60	---	26.92
3	31.29	30.35	29.94	29.58	---	28.60	28.56	---	---	28.26	---	26.75
4	31.16	31.05	30.32	29.40	---	28.90	28.48	---	---	27.93	---	27.35
5	30.66	31.45	30.47	28.85	---	28.73	27.88	---	---	27.08	---	27.20
6	29.98	31.35	30.71	29.33	---	29.50	27.56	28.21	26.26	27.25	---	26.28
7	30.14	31.46	30.43	29.56	29.97	29.83	27.56	28.12	25.93	27.25	---	25.93
8	30.76	31.57	29.83	29.55	29.95	28.69	---	28.01	27.06	27.65	---	26.55
9	31.04	32.00	29.70	29.97	29.65	28.90	---	28.00	27.00	27.67	---	26.45
10	33.25	31.39	30.24	30.22	29.44	28.70	---	26.98	27.60	28.65	---	26.97
11	31.30	31.29	30.35	29.90	30.09	28.88	---	27.89	27.50	28.68	---	26.68
12	31.17	31.27	30.51	29.40	30.23	28.67	---	28.23	28.22	27.45	---	26.17
13	30.25	31.64	30.38	29.32	30.18	28.80	---	28.23	28.05	28.10	---	25.88
14	30.06	31.86	30.23	29.57	30.30	28.84	---	28.17	27.10	28.16	---	26.84
15	30.70	31.68	29.75	29.43	29.97	28.00	---	28.36	27.53	28.16	---	26.84
16	31.12	31.37	29.77	29.98	---	28.34	---	28.36	27.51	27.05	---	27.35
17	31.20	30.45	30.26	30.18	---	28.30	---	27.24	28.01	26.05	---	27.61
18	31.48	30.80	30.49	30.05	---	28.27	---	28.27	27.95	25.56	---	27.68
19	31.17	31.07	31.07	29.70	30.15	28.26	26.15	28.27	28.03	25.05	---	26.85
20	30.25	30.93	31.05	29.69	---	28.60	26.55	28.17	27.95	25.83	---	26.35
21	30.80	31.02	30.93	30.45	---	---	26.55	28.18	27.85	---	---	26.03
22	31.25	31.45	31.21	30.47	---	---	---	27.95	27.50	25.84	---	26.50
23	31.43	31.42	31.25	30.15	---	---	---	27.99	27.40	---	---	26.10
24	31.75	30.30	31.46	30.16	---	---	---	27.05	27.88	25.83	---	26.42
25	31.73	30.51	30.85	---	---	---	---	26.60	27.85	26.25	---	26.75
26	31.25	31.26	29.70	---	29.85	---	---	26.26	27.60	25.63	---	27.25
27	30.63	31.34	29.67	---	29.90	---	---	26.85	27.62	26.10	---	26.53
28	30.95	30.88	29.48	---	29.90	---	---	26.87	26.71	26.10	---	26.35
29	31.44	29.86	28.73	---	29.50	---	---	27.54	27.60	25.30	26.17	27.17
30	31.53	29.62	29.00	30.48	---	27.98	---	27.40	29.17	---	26.30	27.45
31	31.58	---	29.02	30.52	---	27.90	---	26.48	---	---	---	---
MAX	33.25	32.00	31.46	30.52	30.30	29.83	28.56	28.36	29.17	28.95	26.30	27.68

WTR YR 1992 LOW 33.25



UNION COUNTY--Continued.

401826083255200. Local number, U-4.

LOCATION.--Lat 40°18'26", long 83°25'52", Hydrologic Unit 05060001, 2.6 mi southeast of Raymond.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 350 ft, cased to 37 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1,040 ft above National Geodetic Vertical Datum of 1929, from topographic map.

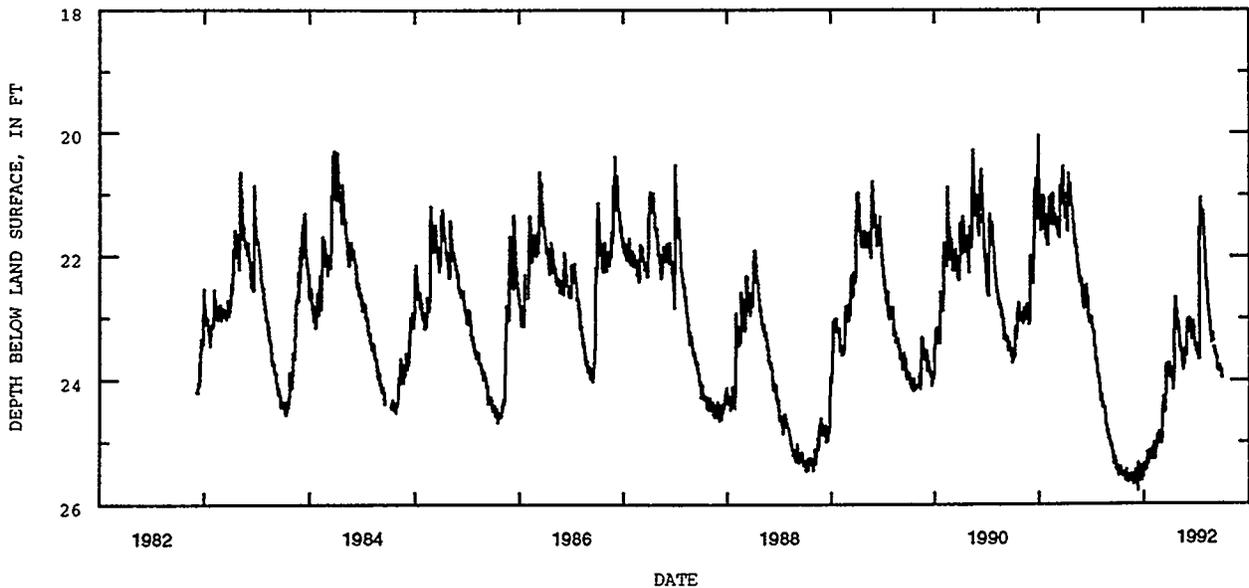
Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.79 ft below land-surface datum, Dec. 11, 1991;  
minimum daily low, 19.32 ft below land-surface datum, Feb. 24, 1975.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.40	25.42	25.62	25.50	25.17	24.99	23.72	23.11	23.10	23.44	21.94	23.47
2	25.37	25.57	25.56	25.45	25.15	25.01	23.75	23.07	23.09	23.46	21.98	23.47
3	25.38	25.61	25.44	25.33	25.10	25.02	23.74	23.18	23.08	23.52	22.03	23.47
4	25.38	25.63	25.65	25.40	25.10	25.02	23.80	23.23	23.03	23.55	22.20	23.54
5	25.43	25.60	25.61	25.41	25.10	25.01	23.97	23.30	23.01	23.52	22.33	23.54
6	25.49	25.56	25.55	25.40	25.03	24.98	23.94	23.45	23.03	23.54	22.41	23.56
7	25.51	25.58	25.50	25.45	25.00	24.50	23.83	23.48	23.03	23.60	22.46	23.59
8	25.50	25.63	25.54	25.47	25.17	24.50	23.90	23.42	23.01	23.57	22.45	23.59
9	25.50	25.64	25.54	25.34	25.28	24.48	23.87	23.44	23.01	23.58	22.54	23.58
10	25.46	25.56	25.62	25.38	25.26	24.27	23.90	23.52	23.04	23.61	22.57	23.65
11	25.39	25.54	25.79	25.44	25.25	24.30	23.90	23.55	23.11	23.67	22.66	23.74
12	25.42	25.57	25.42	25.43	25.26	24.35	24.15	23.50	23.15	23.65	22.76	23.75
13	25.49	25.56	25.32	25.35	25.10	24.37	24.16	23.50	23.16	23.58	22.81	23.75
14	25.46	25.53	25.57	25.20	25.13	24.40	24.05	23.61	23.19	21.55	22.88	23.78
15	25.41	25.51	25.50	25.15	25.04	24.51	24.02	23.65	23.30	21.74	22.89	23.81
16	25.48	25.59	25.49	25.21	25.10	24.53	23.94	23.75	23.34	21.63	22.94	23.82
17	25.48	25.60	25.45	25.30	25.05	24.48	23.85	23.76	23.32	21.55	23.03	23.80
18	25.49	25.53	25.62	25.33	24.93	24.47	23.44	23.83	23.31	21.05	23.10	23.76
19	25.55	25.53	25.63	25.34	24.87	24.00	22.95	23.75	23.05	21.38	23.04	23.81
20	25.52	25.52	25.60	25.23	24.93	23.77	22.92	23.73	23.05	21.58	23.10	23.82
21	25.49	25.55	25.45	25.22	24.95	23.84	22.82	23.75	23.15	21.57	23.20	23.75
22	25.49	25.55	25.43	25.26	24.89	23.73	22.65	23.73	23.20	21.54	23.24	23.75
23	25.50	25.53	25.35	25.12	24.85	23.82	22.72	23.68	23.19	21.60	23.28	23.86
24	25.53	25.54	25.43	25.13	24.88	23.88	22.71	23.65	23.11	21.61	23.32	23.85
25	25.52	25.61	25.51	25.16	24.85	23.86	22.80	23.50	23.19	21.60	23.37	23.81
26	25.54	25.68	25.50	25.23	24.82	23.78	22.90	23.47	23.26	21.58	23.36	23.80
27	25.51	25.61	25.62	25.22	24.87	23.88	22.96	23.53	23.40	21.26	23.33	23.86
28	25.57	25.60	25.50	25.23	24.86	23.95	23.05	23.58	23.45	21.52	23.23	23.93
29	25.57	25.55	25.40	25.28	25.03	23.94	23.03	23.60	23.41	21.66	23.35	23.95
30	25.56	25.63	25.57	25.17	---	23.83	23.08	23.44	23.40	21.73	23.35	23.95
31	25.50	---	25.55	25.09	---	23.76	---	23.07	---	21.85	---	---
MAX	25.57	25.68	25.79	25.50	25.28	25.02	24.16	23.83	23.45	23.67	23.37	23.95
CAL YR 1991	LOW	25.79										
WTR YR 1992	LOW	25.79										

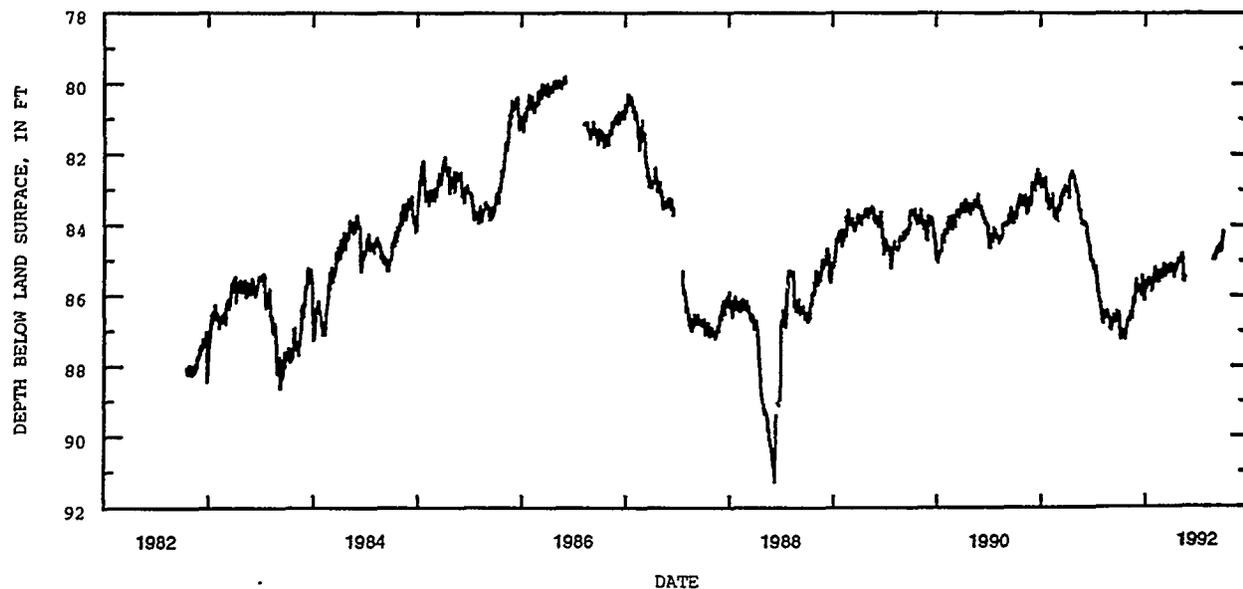


VINTON COUNTY

391452082282900. Local number, V-1.  
 LOCATION.--Lat 39°14'52", long 82°28'29", Hydrologic Unit 05090101, State Highway garage in McArthur.  
 Owner: Vinton County School Board.  
 AQUIFER.--Sandstone of Mississippian Age.  
 WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 218 ft, cased.  
 INSTRUMENTATION.--Digital recorder -- 60-minute punch.  
 DATUM.--Elevation of land-surface datum is 730 ft above National Geodetic Vertical Datum of 1929, from topographic map.  
 Measuring Point: Top of platform 2.50 ft below land-surface datum.  
 REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.  
 PERIOD OF RECORD.--September 1959 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 93.23 ft below land-surface datum, Apr. 12, 1979;  
 minimum daily low, 49.55 ft below land-surface datum, Mar. 20, 1963.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86.52	86.66	85.90	86.11	85.63	85.48	85.12	85.05	---	---	---	84.92
2	86.53	86.65	85.83	86.05	85.65	85.39	85.12	84.98	---	---	---	84.90
3	86.54	86.69	85.54	85.75	85.54	85.46	85.11	84.94	---	---	---	84.78
4	86.58	86.70	85.85	85.67	85.47	85.50	85.08	84.92	---	---	---	84.86
5	86.78	86.70	85.86	85.64	85.44	85.51	85.23	84.96	---	---	---	84.82
6	87.09	86.60	85.71	85.57	85.38	85.39	85.21	84.98	---	---	---	84.79
7	87.11	86.69	85.73	85.74	85.19	85.32	85.11	84.99	---	---	---	84.73
8	87.20	86.72	85.73	85.80	85.30	85.25	85.17	84.91	---	---	---	84.69
9	87.25	86.74	85.73	85.70	85.54	85.27	85.16	84.79	---	---	---	84.62
10	87.18	86.62	85.86	85.65	85.55	85.09	85.16	84.89	---	---	---	84.70
11	87.10	86.46	85.91	85.69	85.61	85.16	85.23	84.91	---	---	---	84.79
12	87.02	86.51	85.89	85.64	85.62	85.26	85.46	84.94	---	---	---	84.81
13	87.10	86.46	85.70	85.56	85.50	85.31	85.49	85.08	---	---	---	84.75
14	87.05	86.49	85.75	85.52	85.34	85.34	85.37	85.14	---	---	---	84.71
15	86.95	86.52	85.76	85.52	85.29	85.40	85.33	85.33	---	---	---	84.73
16	87.09	86.64	85.79	85.51	85.45	85.46	85.26	85.48	---	---	---	84.77
17	87.12	86.64	85.70	85.53	85.47	85.34	85.24	85.55	---	---	---	84.73
18	87.14	86.49	85.93	85.68	85.41	85.35	85.22	85.60	---	---	---	84.70
19	87.17	86.43	85.96	85.70	85.48	85.16	85.25	85.51	---	---	---	84.58
20	87.15	86.36	85.97	85.50	85.61	85.25	85.18	85.48	---	---	---	84.59
21	87.09	86.31	85.80	85.55	85.61	85.32	85.08	---	---	---	---	84.51
22	87.20	86.23	85.65	85.60	85.58	85.18	85.16	---	---	---	---	84.55
23	87.21	86.16	85.41	85.50	85.45	85.20	85.21	---	---	---	---	84.74
24	87.24	86.04	85.47	85.72	85.38	85.34	85.17	---	---	---	---	84.74
25	87.18	86.15	85.64	85.74	85.35	85.34	85.12	---	---	---	---	84.61
26	87.09	86.25	85.68	85.85	85.30	85.23	85.12	---	---	---	84.96	84.55
27	86.99	86.22	85.75	85.83	85.30	85.32	85.07	---	---	84.13	84.95	84.31
28	86.89	86.15	85.75	85.78	85.30	85.37	85.07	---	---	---	84.86	84.34
29	86.88	86.03	85.78	85.78	85.48	85.37	84.98	---	---	---	84.92	84.32
30	86.86	85.90	86.12	85.68	---	85.23	84.96	---	---	---	84.93	84.19
31	86.75	---	86.12	85.49	---	85.20	---	---	---	---	84.90	---
MAX	87.25	86.74	86.12	86.11	85.65	85.51	85.49	85.60	---	84.13	84.96	84.92
CAL YR 1991	LOW 87.25											
WTR YR 1992	LOW 87.25											



WARREN COUNTY

392712084191700. Local number, W-5.

LOCATION.--Lat 39°27'12", long 84°19'17", Hydrologic Unit 05080002, Union Rd., 2 mi east of Monroe.

Owner: Bob Proeschel.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 121 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 660 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

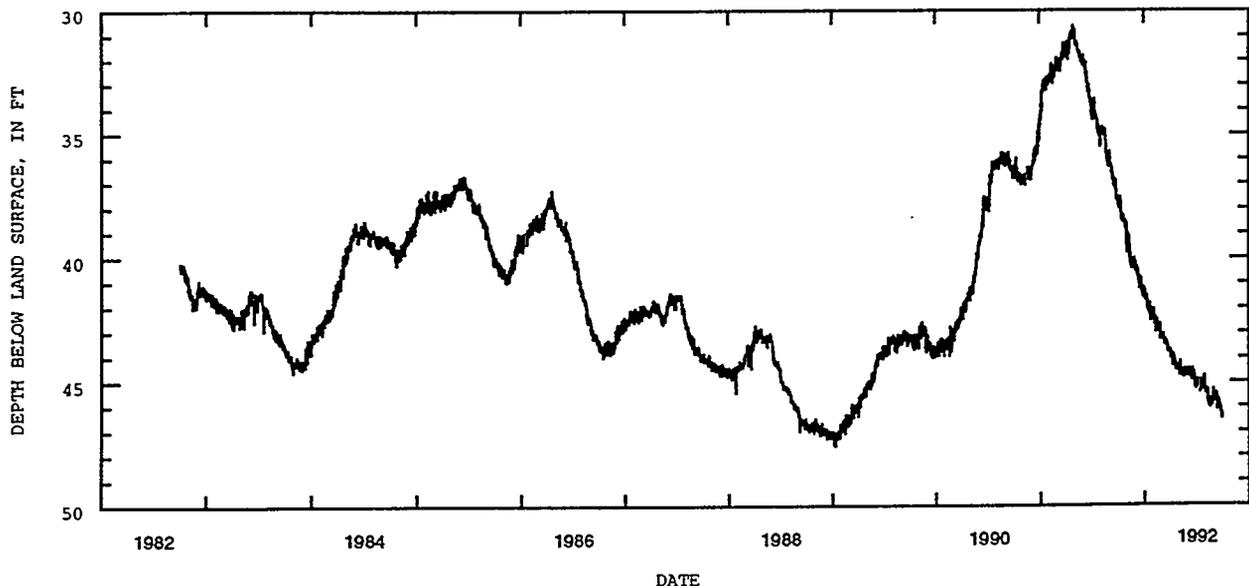
PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 47.60 ft below land-surface datum, Jan. 13, 1989;  
minimum daily low, 17.70 ft below land-surface datum, Apr. 30, 1975.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37.60	38.70	40.15	41.45	42.50	43.05	43.70	44.40	44.70	45.05	45.45	45.75
2	37.60	39.05	40.15	41.30	42.35	43.15	43.80	44.35	44.80	45.05	45.25	45.55
3	37.55	39.15	40.25	41.20	42.25	43.10	43.70	44.40	44.55	45.10	45.30	45.50
4	37.60	39.80	40.50	41.45	42.30	43.10	43.75	44.50	44.50	45.00	45.30	45.50
5	37.85	39.45	40.45	41.40	42.25	43.10	44.00	44.45	44.50	44.95	45.40	45.55
6	37.90	39.00	40.55	41.60	42.20	43.10	44.00	44.70	44.60	45.10	45.50	45.60
7	37.90	39.25	40.35	41.70	42.20	43.10	43.80	44.70	44.45	45.15	45.35	45.65
8	38.00	39.35	40.35	41.70	42.55	43.25	43.90	44.15	44.60	44.90	45.35	45.60
9	37.95	39.25	40.55	41.55	42.70	43.05	44.05	44.55	44.60	45.15	45.35	45.45
10	37.80	39.10	40.70	41.65	42.50	43.10	43.95	44.65	44.55	45.00	45.30	45.65
11	37.55	39.25	40.75	41.70	42.60	43.30	44.05	44.60	44.65	45.15	45.65	45.75
12	37.95	39.40	40.65	41.75	42.65	43.30	44.35	44.50	44.45	45.10	45.70	45.90
13	38.05	39.60	40.50	41.50	42.40	43.30	44.30	44.55	44.75	45.15	45.80	46.00
14	38.00	40.00	40.90	41.95	43.00	43.30	44.10	44.65	44.70	45.05	45.85	46.05
15	38.35	39.80	40.90	42.00	42.75	43.50	43.90	44.75	44.65	45.45	45.65	46.15
16	38.45	40.20	40.90	42.00	42.85	43.40	43.90	44.80	44.95	44.95	45.95	46.05
17	38.40	40.10	40.90	42.05	42.70	43.40	44.15	44.60	44.65	44.95	46.00	45.75
18	38.40	40.20	41.20	42.20	42.50	43.30	44.20	44.70	44.45	45.20	45.95	45.70
19	38.55	40.45	41.25	42.05	42.75	43.40	44.20	44.80	44.45	45.35	45.95	46.05
20	38.45	40.30	41.10	42.05	42.85	43.45	44.25	44.60	44.65	45.25	45.90	46.00
21	38.30	40.30	41.00	42.05	43.00	43.40	44.30	44.85	44.65	45.10	45.80	46.00
22	38.40	40.35	40.80	42.00	42.80	43.45	44.50	44.60	44.80	45.05	45.80	45.85
23	38.50	40.30	40.80	41.80	42.85	43.65	44.30	44.45	44.70	45.15	45.65	46.05
24	38.50	40.05	41.20	42.30	42.90	43.60	44.40	44.60	44.55	45.15	45.90	46.10
25	38.50	40.20	41.25	42.20	42.80	43.60	44.40	44.45	44.80	45.30	45.90	46.10
26	38.50	40.35	41.25	42.55	42.80	43.55	44.50	44.55	44.85	45.05	45.85	46.15
27	38.60	40.20	41.40	42.40	42.80	43.75	44.50	44.65	44.95	45.20	45.95	46.35
28	38.65	40.05	41.15	42.35	42.70	43.80	44.50	44.80	45.15	45.10	45.50	46.45
29	38.80	40.00	41.20	42.30	43.30	43.70	44.30	44.75	45.20	44.75	45.70	46.50
30	38.65	40.40	41.55	42.05	---	43.70	44.55	44.70	45.20	44.80	45.30	46.35
31	38.55	---	41.60	42.15	---	43.70	---	44.65	---	45.10	45.80	---
MAX	38.80	40.45	41.60	42.55	43.30	43.80	44.55	44.85	45.20	45.45	46.00	46.50

CAL YR 1991 LOW 41.60  
WTR YR 1992 LOW 46.50



WASHINGTON COUNTY

392553081281600. Local number, WA-2.

LOCATION.--Lat 39°25'53", long 81°28'16", Hydrologic Unit 05040004 near county fairgrounds north of Marietta.

Owner: Marietta Water Dept.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth, 50 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 605 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

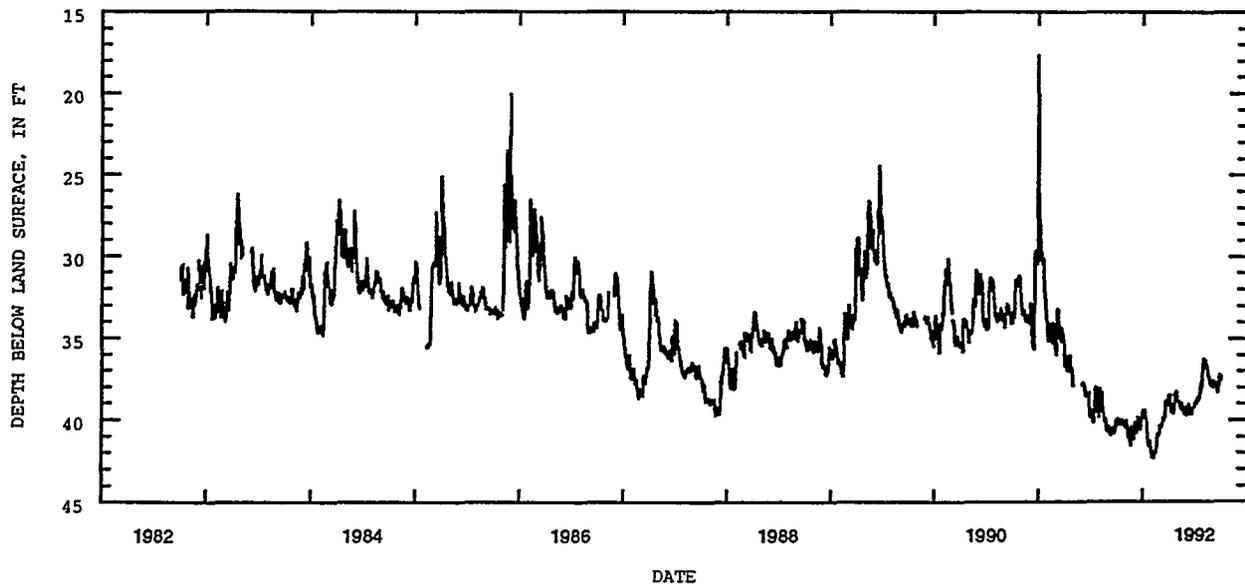
PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 42.30 ft below land-surface datum, Feb. 7-8, 1992;  
minimum daily low, 17.60 ft below land-surface datum, Jan. 2, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.10	40.37	41.20	39.70	41.85	40.70	38.80	38.70	39.50	39.00	36.30	37.55
2	39.95	40.45	41.15	39.55	41.85	40.60	38.70	38.80	39.15	39.00	36.25	37.70
3	40.10	40.45	41.10	39.50	41.95	40.40	38.55	---	39.20	38.90	36.50	37.95
4	40.35	40.40	40.90	39.45	42.00	40.30	38.50	---	39.25	39.00	36.50	37.95
5	40.35	40.10	40.55	39.45	42.10	40.35	38.50	38.85	39.35	39.00	36.35	38.00
6	39.90	40.00	40.25	39.40	42.25	40.40	38.50	38.90	39.30	39.00	36.40	37.90
7	39.90	40.20	40.10	39.40	42.30	40.40	38.70	38.90	39.20	38.85	36.45	37.80
8	40.10	40.40	40.25	39.50	42.30	40.35	39.20	38.95	39.15	38.80	36.70	37.75
9	40.20	40.50	40.40	39.60	42.20	40.30	39.35	39.10	39.05	38.70	36.70	37.75
10	40.25	40.55	40.50	39.70	42.25	40.20	39.50	39.10	39.00	38.60	36.60	37.75
11	40.25	40.65	40.70	39.80	42.25	40.20	39.35	39.10	39.25	38.70	36.75	37.80
12	40.30	40.80	40.80	39.85	42.20	40.00	39.10	39.05	39.45	38.75	36.85	37.80
13	40.25	40.90	40.80	39.90	42.10	39.90	39.10	39.20	39.55	38.70	36.95	37.80
14	40.10	41.00	40.55	40.00	42.05	39.90	39.05	39.25	39.60	38.70	37.05	37.75
15	40.30	41.05	40.30	40.05	42.00	39.85	39.05	39.00	39.65	38.70	37.20	37.70
16	40.30	41.05	40.10	40.30	42.05	39.80	39.45	38.90	39.65	38.70	37.30	37.90
17	40.20	41.10	39.90	40.65	42.00	39.90	39.50	39.20	39.60	38.55	37.35	38.00
18	40.20	41.10	39.95	40.90	41.75	39.90	39.60	39.30	39.55	38.40	37.35	38.30
19	40.20	41.30	40.05	41.10	41.70	39.80	39.30	39.15	39.60	38.30	37.40	38.30
20	40.05	41.35	---	41.25	41.65	39.70	39.10	39.30	39.60	38.10	37.45	38.15
21	39.95	41.40	---	41.40	41.55	39.35	38.95	39.40	39.60	38.00	37.55	38.00
22	39.90	41.60	---	41.50	41.50	39.05	38.70	39.30	39.55	37.90	37.65	37.90
23	40.00	40.70	---	41.55	41.35	38.85	38.35	39.40	39.35	37.90	37.75	37.80
24	40.20	40.40	40.60	41.60	40.80	39.00	38.55	39.50	39.30	37.95	37.80	37.60
25	40.25	40.45	40.60	41.45	40.90	39.00	38.50	39.60	39.20	37.70	37.85	37.20
26	40.25	41.05	40.40	41.40	40.90	38.80	38.30	39.60	39.25	37.50	37.85	37.35
27	40.25	41.05	40.35	41.35	40.90	38.90	38.20	39.60	39.15	37.25	37.85	37.40
28	40.25	41.10	40.15	41.40	40.90	39.00	38.30	39.50	39.20	36.90	37.95	37.45
29	40.25	41.15	39.90	41.50	40.80	39.00	38.50	39.60	39.20	36.65	37.90	37.50
30	40.35	41.15	39.80	41.65	---	38.85	38.60	39.60	38.90	36.40	37.75	37.30
31	40.40	---	39.80	41.85	---	38.80	---	39.65	---	36.30	37.50	---
MAX	40.40	41.60	41.20	41.85	42.30	40.70	39.60	39.65	39.65	39.00	37.95	38.30

CAL YR 1991 LOW 41.60  
WTR YR 1992 LOW 42.30



WAYNE COUNTY

404655081553200. Local number, WN-3.

LOCATION.--Lat 40°46'55", long 81°55'32", Hydrologic Unit 05040003, OARDC-OSU Experiment Station near Wooster.

Owner: OARDC-OSU.

AQUIFER.--Shale of Mississippian Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 20 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1040 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

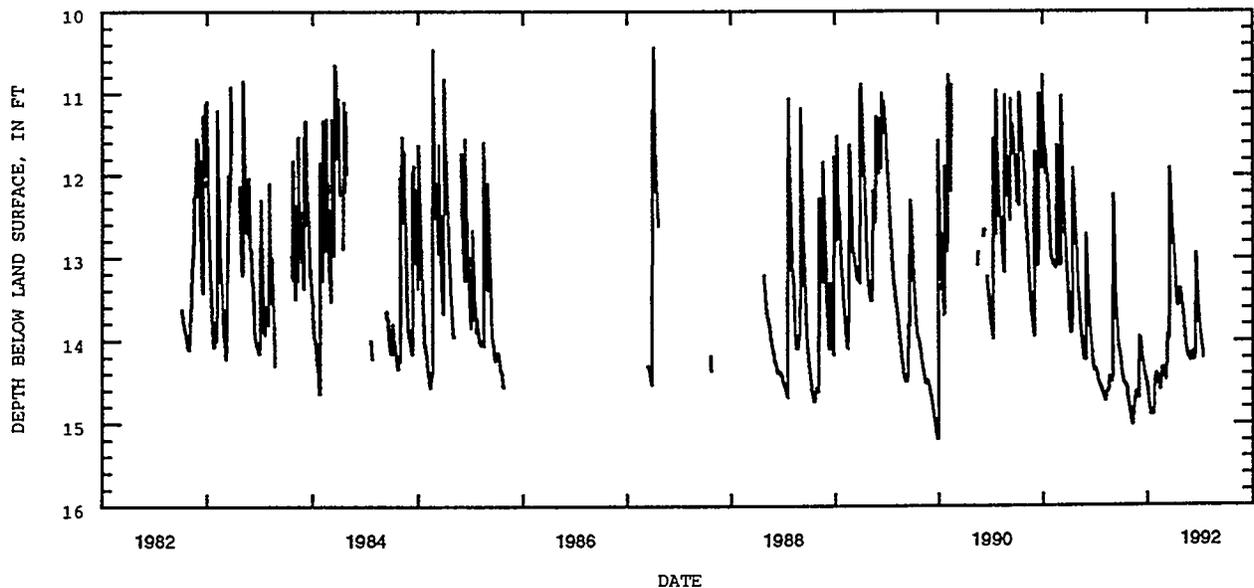
PERIOD OF RECORD.--June 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 16.17 ft below land-surface datum, Jan. 27, 29, 1956;  
minimum daily low, 10.43 ft below land-surface datum, Apr. 6, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.22	14.82	14.68	14.54	14.40	14.37	12.75	13.51	14.17	13.81	---	---
2	14.25	14.84	14.69	14.56	14.40	14.38	12.78	13.54	14.16	13.84	---	---
3	14.28	14.86	14.69	14.57	14.40	14.41	12.82	13.57	14.15	13.87	---	---
4	14.31	14.88	14.41	14.58	14.40	14.44	12.87	13.60	14.15	13.90	---	---
5	14.35	14.91	14.06	14.67	14.41	14.46	12.93	13.64	14.15	13.93	---	---
6	14.38	14.93	13.97	14.70	14.42	14.47	13.01	13.68	14.15	13.95	---	---
7	14.41	14.95	13.98	14.73	14.43	14.47	13.08	13.72	14.14	13.97	---	---
8	14.44	14.97	14.00	14.76	14.44	14.44	13.16	13.76	14.15	14.03	---	---
9	14.47	14.99	14.03	14.79	14.45	14.34	13.22	13.80	14.16	14.05	---	---
10	14.49	15.01	14.06	14.81	14.47	14.24	13.28	13.84	14.17	14.08	---	---
11	14.50	15.02	14.10	14.84	14.49	14.09	13.35	13.88	14.19	14.10	---	---
12	14.50	15.02	14.15	14.87	14.52	13.98	13.40	13.92	14.20	14.12	---	---
13	14.51	15.00	14.18	14.89	14.55	13.93	13.44	13.95	14.22	14.13	---	---
14	14.51	14.94	14.20	14.89	14.57	13.92	13.48	13.99	14.21	14.20	---	---
15	14.52	14.87	14.22	14.89	14.59	13.94	13.52	14.03	14.18	---	---	---
16	14.52	14.82	14.24	14.87	14.59	13.95	13.56	14.07	14.17	---	---	---
17	14.53	14.77	14.25	14.86	14.58	13.97	13.59	14.09	14.17	---	---	---
18	14.54	14.74	14.27	14.84	14.57	13.98	13.59	14.11	12.94	---	---	---
19	14.54	14.72	14.30	14.84	14.45	13.49	13.54	14.13	12.95	---	---	---
20	14.55	14.70	14.34	14.84	14.41	11.90	13.49	14.15	13.05	---	---	---
21	14.56	14.68	14.37	14.89	14.37	12.02	13.46	14.17	13.16	---	---	---
22	14.56	14.65	14.39	14.89	14.35	12.10	13.42	14.19	13.25	---	---	---
23	14.57	14.64	14.40	14.89	14.34	12.15	13.39	14.19	13.32	---	---	---
24	14.58	14.63	14.40	14.88	14.33	12.21	13.38	14.19	13.38	---	---	---
25	14.67	14.62	14.41	14.75	14.33	12.29	13.38	14.19	13.45	---	---	---
26	14.69	14.62	14.43	14.61	14.33	12.36	13.39	14.19	13.51	---	---	---
27	14.71	14.63	14.45	14.52	14.34	12.46	13.41	14.21	13.58	---	---	---
28	14.73	14.64	14.47	14.48	14.35	12.51	13.43	14.22	13.65	---	---	---
29	14.75	14.66	14.49	14.46	14.36	12.62	13.45	14.23	13.73	---	---	---
30	14.78	14.67	14.50	14.43	---	12.69	13.48	14.22	13.79	---	---	---
31	14.79	---	14.52	14.41	---	12.73	---	14.20	---	---	---	---
MAX	14.79	15.02	14.69	14.89	14.59	14.47	13.59	14.23	14.22	14.20	---	---

CAL YR 1991 LOW 15.02  
WTR YR 1992 LOW 15.02



WAYNE COUNTY--Continued.

404802081583100. Local number, WN-2A.

LOCATION.--Lat 40°48'02", long 81°58'31", Hydrologic Unit 05040003, in well field by Killbuck Creek near Wooster.  
 Owner: Wooster Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 65 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 855 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 6.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

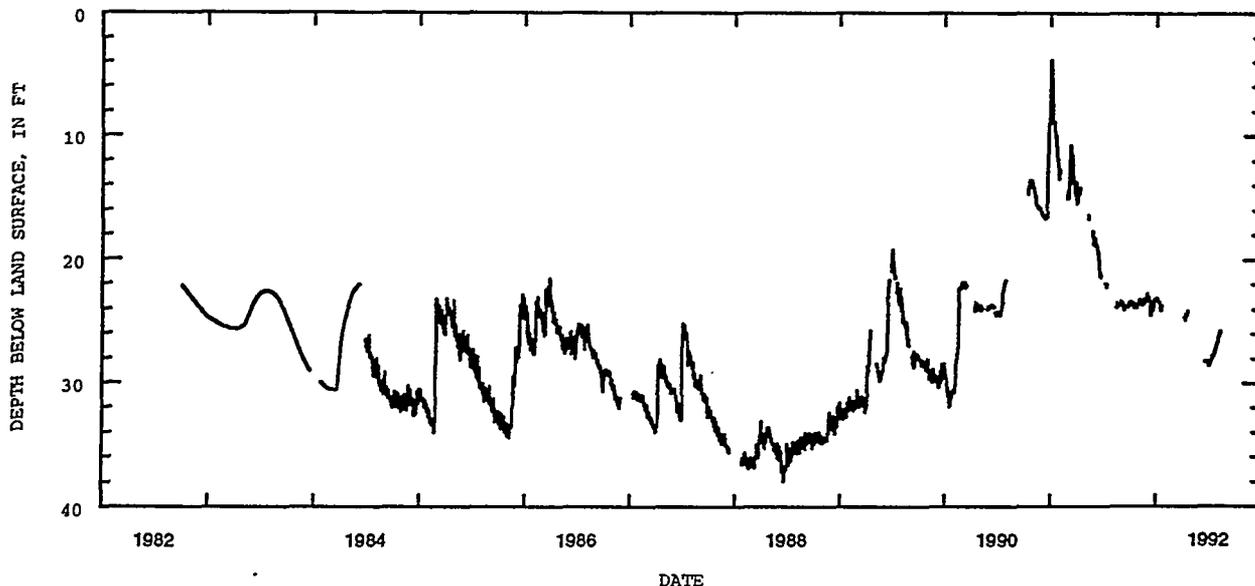
PERIOD OF RECORD.--July 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.95 ft below land-surface datum, June 23, 1988;  
 minimum daily low, 2.35 ft below land-surface datum, Jan. 28, 1952.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.49	23.64	23.02	23.18	---	---	---	---	---	28.51	26.57	---
2	23.60	23.63	22.89	23.17	---	---	---	---	---	28.53	26.46	---
3	23.66	23.54	22.85	23.17	---	---	---	---	---	28.53	26.30	---
4	23.66	23.39	23.00	23.17	---	---	---	---	---	28.53	26.20	---
5	23.66	23.36	23.04	23.12	---	---	---	---	---	28.46	26.11	---
6	23.59	23.32	23.12	23.16	---	---	---	---	---	28.36	26.02	---
7	23.49	23.44	23.15	23.24	---	---	---	---	---	28.31	25.95	---
8	23.55	23.59	23.13	23.34	---	---	---	---	---	28.24	25.87	---
9	23.60	23.65	23.00	23.34	---	---	24.65	---	---	28.17	25.77	---
10	23.60	23.57	23.16	23.43	---	---	24.74	---	---	28.13	---	---
11	23.65	23.40	23.38	23.44	---	---	24.74	---	---	28.07	---	---
12	23.65	23.37	23.87	23.45	---	---	24.55	---	---	27.99	---	---
13	23.62	23.46	24.45	23.47	---	---	24.29	---	---	27.89	---	---
14	23.52	23.48	24.45	23.74	---	---	24.36	---	---	27.84	---	---
15	23.55	23.59	24.34	23.89	---	---	24.37	---	---	27.82	---	---
16	23.62	23.59	24.12	24.03	---	---	24.43	---	---	27.80	---	---
17	23.75	23.53	24.03	24.07	---	---	24.43	---	---	27.78	---	---
18	23.85	23.34	24.05	24.09	---	---	24.37	---	---	27.74	---	---
19	23.85	23.32	24.05	23.98	---	---	24.21	---	28.24	27.67	---	---
20	23.73	23.31	24.05	23.73	---	---	24.12	---	28.24	27.57	---	---
21	23.60	23.44	23.99	---	---	---	---	---	28.24	27.51	---	---
22	23.63	23.45	23.95	---	---	---	---	---	28.19	27.44	---	---
23	23.72	23.45	23.74	---	---	---	---	---	28.17	27.37	---	---
24	23.80	23.36	23.65	---	---	---	---	---	28.16	27.28	---	---
25	23.87	23.22	23.51	---	---	---	---	---	28.16	27.21	---	---
26	23.87	23.37	23.35	---	---	---	---	---	28.17	27.10	---	---
27	23.78	23.38	23.30	---	---	---	---	---	28.17	26.95	---	---
28	23.61	23.38	23.30	---	---	---	---	---	28.17	26.85	---	---
29	23.54	23.28	23.27	---	---	---	---	---	28.19	26.79	---	---
30	23.54	23.13	23.18	---	---	---	---	---	28.40	26.71	---	---
31	23.64	---	23.18	---	---	---	---	---	---	26.64	---	---
MAX	23.87	23.65	24.45	24.09	---	---	24.74	---	28.40	28.53	26.57	---

CAL YR 1991 LOW 24.45  
 WTR YR 1992 LOW 28.53



WAYNE COUNTY--Continued

405745081510200. Local number, WN-7.

LOCATION.--Lat 40°57'45", long 81°51'02", Hydrologic Unit 05040001, in well field along Steele Ditch near Sterling.  
 Owner: Rittman Water Department

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 123 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 965 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1979 to current year.

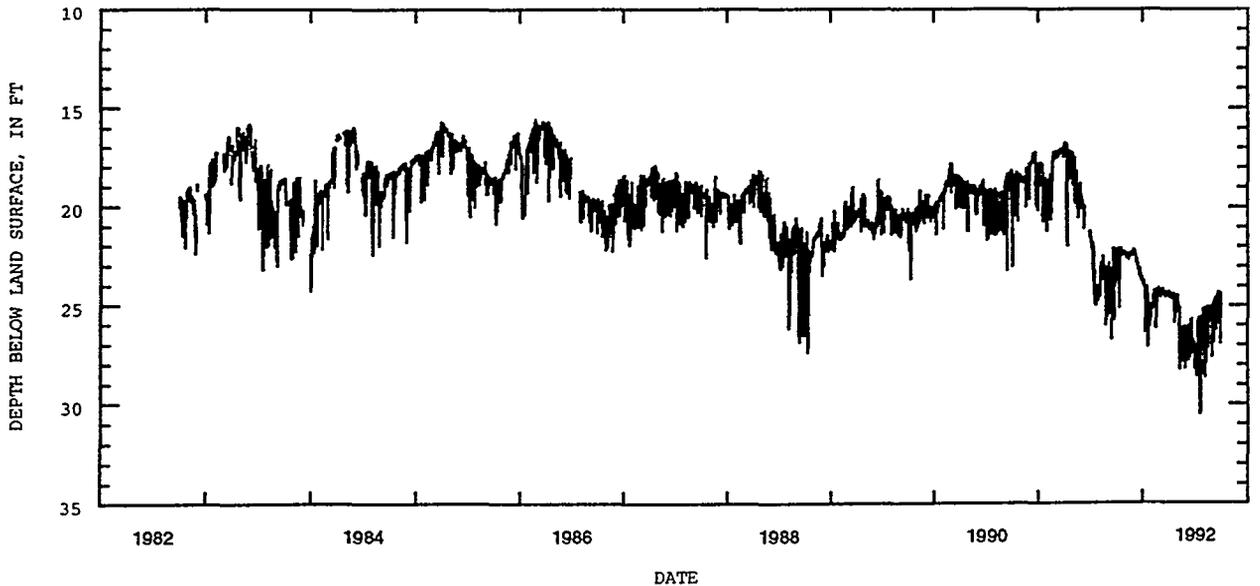
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 30.50 ft below land-surface datum, July 20, 1992;

minimum daily low, 5.38 ft below land-surface datum, Jan. 17, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.60	22.35	22.30	23.65	24.95	24.35	24.40	24.55	26.10	27.60	25.25	25.50
2	22.50	22.30	22.35	23.70	25.00	24.40	24.40	24.50	26.30	28.20	27.10	25.00
3	22.25	22.35	22.15	23.70	25.00	24.50	24.25	24.50	26.45	27.50	25.25	25.10
4	22.35	22.40	22.30	23.75	25.00	24.60	24.35	24.70	26.40	27.15	25.15	25.05
5	22.30	22.45	22.20	23.75	25.20	24.40	24.50	25.05	26.25	27.10	28.45	25.00
6	22.15	22.45	22.30	23.95	25.10	24.20	24.60	25.30	26.30	27.40	28.65	24.80
7	22.35	22.60	22.45	24.00	25.05	24.20	24.55	25.30	26.30	27.30	25.70	26.85
8	22.25	22.50	22.40	24.00	25.00	24.20	24.55	25.10	26.65	27.20	25.35	24.80
9	22.30	22.55	22.45	24.10	24.50	24.40	24.55	25.10	27.80	28.60	25.15	24.90
10	25.10	22.35	22.70	24.05	24.60	24.25	24.40	25.20	27.15	27.00	27.90	24.80
11	22.10	22.40	22.85	24.15	24.60	24.25	24.45	26.90	26.80	27.45	25.70	24.90
12	22.20	22.40	22.80	24.15	24.50	24.20	24.60	28.20	26.00	27.10	25.60	24.80
13	22.10	22.45	22.60	26.35	24.45	24.10	24.65	26.10	26.70	25.85	27.05	24.60
14	25.15	22.45	22.70	24.05	24.30	24.25	24.65	26.40	27.25	26.00	25.40	24.65
15	22.20	22.60	22.80	24.00	24.25	24.30	24.55	26.15	27.05	25.70	26.80	24.70
16	22.35	22.60	22.95	24.10	24.20	24.35	24.50	26.30	27.25	25.80	25.05	24.90
17	22.25	22.55	22.95	24.30	24.45	24.30	24.35	26.20	27.65	25.60	27.15	26.25
18	22.35	22.35	23.10	24.45	26.10	24.50	24.40	26.30	27.25	25.70	25.35	24.60
19	22.20	22.45	23.20	24.65	26.15	24.40	24.45	26.65	26.10	25.60	25.20	24.50
20	22.10	22.45	23.10	26.15	25.10	24.30	24.75	26.70	25.85	30.50	25.20	24.50
21	22.40	22.45	23.20	26.90	24.60	24.55	24.60	26.70	25.70	30.30	25.15	24.50
22	22.50	22.40	23.10	27.10	24.60	24.30	24.60	27.65	25.65	26.65	25.30	24.30
23	22.30	22.35	23.15	26.40	24.55	24.50	24.75	27.85	27.30	26.25	25.20	24.40
24	22.30	22.35	23.50	25.10	24.50	24.55	25.85	26.20	26.85	25.75	25.25	24.45
25	22.35	22.35	23.30	25.10	24.40	24.40	24.50	26.15	27.05	25.80	25.60	24.40
26	22.50	22.50	23.50	25.05	24.40	24.40	24.50	26.40	26.85	25.65	25.45	25.90
27	22.45	22.40	23.60	25.00	24.35	24.30	24.55	26.50	27.05	25.55	25.45	24.35
28	22.25	22.50	23.65	26.05	24.10	24.50	24.65	26.60	26.75	25.65	25.25	24.40
29	22.30	22.35	23.50	25.60	24.35	24.40	24.65	28.20	27.00	25.95	25.10	24.40
30	22.30	22.35	23.65	25.10	---	24.40	24.65	26.60	27.35	25.45	25.00	26.90
31	22.30	---	23.80	25.10	---	24.30	---	26.10	---	25.25	27.60	---
MAX	25.15	22.60	23.80	27.10	26.15	24.60	25.85	28.20	27.80	30.50	28.65	26.90

CAL YR 1991 LOW 26.70  
 WTR YR 1992 LOW 30.50



WAYNE COUNTY--Continued

405805081462300. Local number, WN-6.

LOCATION.--Lat 40°58'05", long 81°46'23", Hydrologic Unit 05040001, Salt Street, Rittman.

Owner: Tenneco, Inc.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 180 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 960 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Floor of instrument shelter 2.30 ft above land-surface datum.

REMARKS--Station operated by Ohio Department of Natural Resources, Division of Water.

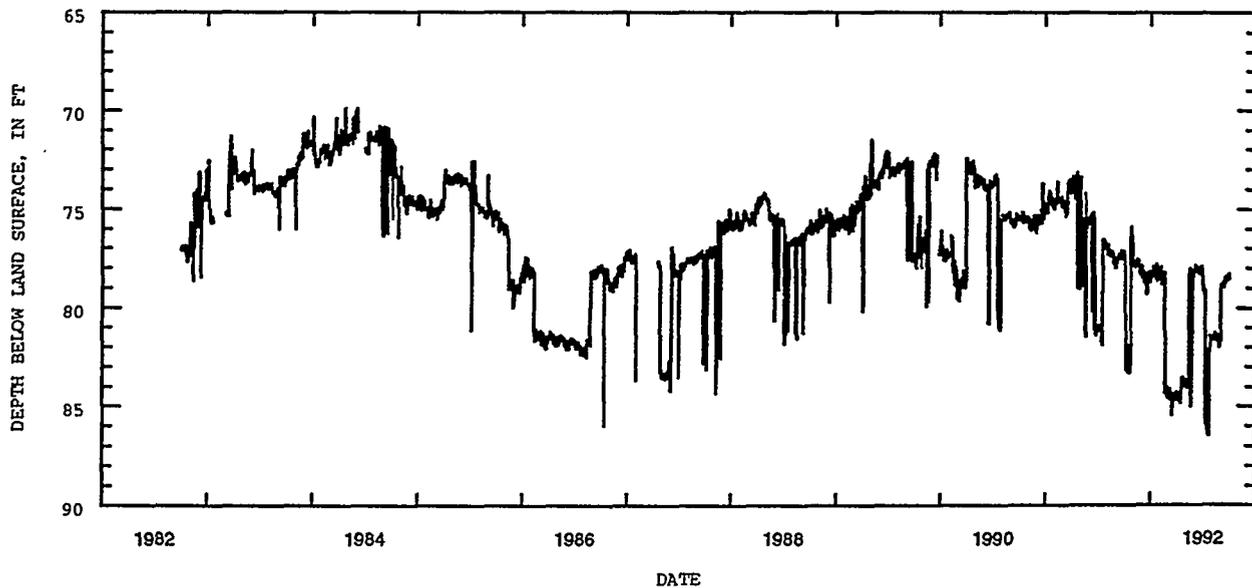
PERIOD OF RECORD.--May 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 92.80 ft below land-surface datum, July 21, 1971;  
minimum daily low, 69.87 ft below land-surface datum, Apr. 22, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77.25	77.14	78.32	78.74	78.41	84.39	84.24	83.78	78.20	78.93	81.63	78.99
2	77.10	77.61	78.26	78.70	78.40	84.42	84.29	83.61	78.16	79.01	81.58	78.94
3	77.28	77.80	77.85	78.32	78.29	84.52	84.27	83.71	78.12	79.06	81.41	78.81
4	77.31	77.85	78.38	78.36	78.16	84.56	84.35	83.72	78.00	79.15	81.49	78.98
5	77.47	77.82	78.51	78.40	78.30	84.52	84.64	83.76	77.85	79.05	81.59	78.98
6	77.49	77.64	78.35	78.28	78.11	84.38	84.67	83.98	77.82	79.14	81.63	78.85
7	77.51	77.81	78.19	78.29	77.90	84.17	84.42	84.07	77.94	79.22	81.52	78.83
8	83.07	77.88	78.17	78.29	78.38	84.30	84.48	83.89	78.06	79.21	81.42	78.77
9	83.07	77.88	78.26	77.94	78.75	84.31	84.37	83.79	78.09	85.59	81.34	78.77
10	83.04	77.71	78.44	77.98	78.79	84.08	84.45	83.96	78.06	85.71	81.26	78.71
11	83.02	77.68	78.71	78.05	78.81	84.23	84.26	83.93	78.14	85.87	81.23	78.89
12	83.05	77.69	78.72	78.08	78.83	84.34	84.77	83.77	78.17	85.86	81.41	78.96
13	83.19	77.62	78.34	77.94	78.45	84.46	84.85	83.68	78.10	85.89	81.42	78.83
14	83.16	77.63	78.56	77.95	78.35	84.43	84.60	83.79	78.08	85.91	81.52	78.71
15	83.03	77.62	78.66	78.07	78.19	84.70	84.57	78.49	78.25	86.03	81.52	78.74
16	83.25	77.87	78.83	78.26	78.55	85.48	84.36	78.09	78.27	86.15	81.63	78.73
17	83.25	77.93	78.61	78.20	78.58	84.65	84.33	77.99	78.17	86.23	81.65	78.58
18	83.17	77.66	79.13	78.49	78.34	84.68	84.33	78.06	78.23	86.31	81.49	78.46
19	83.33	77.65	79.32	78.54	78.29	84.49	83.84	85.03	78.12	86.37	81.43	78.56
20	83.33	77.60	79.24	78.21	78.57	84.51	83.62	84.67	78.20	86.41	81.47	78.54
21	83.19	77.64	78.77	78.19	84.32	84.69	83.60	84.27	78.29	86.49	81.49	78.36
22	81.86	77.80	78.65	78.19	84.32	84.50	83.94	84.26	78.32	82.92	81.51	78.37
23	82.47	77.82	78.30	77.81	84.19	84.59	84.00	84.14	78.19	82.71	81.47	78.62
24	82.90	77.91	78.20	78.33	84.29	84.74	83.65	84.10	77.87	81.55	82.00	78.64
25	76.88	78.16	78.56	78.35	84.26	84.66	83.60	78.50	77.94	81.46	82.00	78.51
26	75.90	78.32	78.56	78.57	84.19	84.36	83.74	78.20	77.94	81.51	81.86	78.38
27	75.87	78.27	78.72	78.54	84.04	84.54	83.84	78.21	78.10	81.56	81.79	78.37
28	76.56	78.35	78.65	78.49	84.04	84.69	83.88	78.33	78.12	81.67	81.50	78.43
29	76.86	78.17	78.16	78.43	84.42	84.69	83.79	78.36	78.69	81.60	81.66	78.56
30	76.94	78.22	78.64	78.22	---	84.43	83.75	78.18	78.83	81.58	81.66	78.47
31	76.38	---	78.73	78.10	---	84.36	---	78.17	---	81.55	78.93	---
MAX	83.33	78.35	79.32	78.74	84.42	85.48	84.85	85.03	78.83	86.49	82.00	78.99

CAL YR 1991 LOW 83.33  
WTR YR 1992 LOW 86.49



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